HIGHWAY WORK PROPOSAL

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

Proposal Number: 006

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Milwaukee	1100-20-70	WISC 2025004	IH 41 Zoo Freeway; Burleigh St to Capitol Dr	IH 041
Milwaukee	1100-20-71	WISC 2025005	IH 41 Zoo Freeway; Capitol Dr to Silver Spring Dr	IH 041

ADDENDUM REQUIRED

ATTACHED AT BACK

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: $1,000,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: October 8, 2024 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time August 01, 2026	
Assigned Disadvantaged Business Enterprise Goal 10%	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

For Department Use Only

Type of Work:
Grading, Base, Concrete Pavement, Asphalt Pavement, Bridge Widening, Bridge Overlays, Sign Bridges, Noise Barrier Wall, Curb and Gutter, Concrete Barrier, Guardrail, Storm Sewer, Fencing, Signs, Pavement Markings, Street Lighting, Traffic Signals.

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://wisconsindot.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://wisconsindot.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 envelop 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 Expedite™ generated schedule of items is not the same on each page.
2. The check code printed on the printout of the Expedite™ 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

Wisconsin Department of Transportation

DT1303 1/2006

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)

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

(Signature of Attorney-in-Fact)

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

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

Wisconsin Department of Transportation

DT1305 8/2003

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)

Effective with March 2010 Letting

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.

Name of Subcontractor	Class of Work	Estimated Value

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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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1100-20-70, IH 41 Zoo Freeway, Burleigh St to Capitol Dr, IH 41; and Project 1100-20-71, IH 41 Zoo Freeway, Capitol Dr to Silver Spring Dr, IH 41, both projects in Milwaukee County, Wisconsin 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, 2024 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 (20240105)

2. Scope of Work.

The work under this contract shall consist of HMA milling, HMA pavement, removing pavement, concrete pavement, base patching, excavation, grading, base course, concrete barrier, noise barrier, sign structures, high friction surface treatment, FTMS, storm sewer, permanent lighting, temporary lighting, structure widening, thin polymer overlays, polyester polymer concrete overlays, deck seal, concrete repairs, structure painting, expansion joint replacement, parapet replacement, wing wall repairs, structure approach slabs, guardrail replacement, signal improvements, pavement marking, permanent signing, erosion control, traffic control, restoration, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

Structures:

Bridges

B-40-356	B-40-357	B-40-358	B-40-359
B-40-333	B-40-334	B-40-360	B-40-216
B-40-217	B-40-363	B-40-364	

Culverts

C-40-47

Noise Barriers

N-40-88	N-40-105

Sign Structures

S-40-0252	S-40-0352	S-40-0353	S-40-0370
S-40-0371	S-40-0372	S-40-0373	S-40-0462
S-40-0917	S-40-3060	S-40-3061	S-40-3062
S-40-3084	S-40-3085	S-40-3086	S-40-3087
S-40-3088	S-40-3089		

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 10 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.

Do not begin work prior to March 1, 2025, without engineer's permission.

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

Be advised that there may be multiple mobilizations and/or remobilizations to complete construction operations, for example such items as: grading, asphalt milling, asphalt paving, concrete pavement repair/replacement, paving, traffic control, signing, temporary and permanent pavement marking, finishing items and other incidental items. No additional payment will be made, by the department, for additional mobilizations.

Fish Spawning

There shall be no instream disturbance of the Menomonee River at Station 305+50 and the small tributary at Station 262+00 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 and other aquatic organisms.

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.

Migratory Birds

No evidence of swallow or other migratory bird nests have been observed on or under the following structures(s) during the preconstruction inspection. However, if nesting is later observed prior to or during construction, the contractor shall implement avoidance/deterrent measures or obtain a depredation permit. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act. The nesting season for swallows and other birds is from April 15 to August 31.

- B-40-356
- B-40-357
- B-40-358
- B-40-359
- B-40-333
- B-40-334
- B-40-360
- B-40-363
- B-40-364
- C-40-47

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 disturb active nests. If it is later determined during construction that the nests will be disturbed the contractor shall implement avoidance/deterrent measures or obtain a depredation permit. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act. The nesting season for swallows and other birds is from April 15 to August 31:

- B-40-216
- B-40-217

Northern Long-eared Bat *(Myotis septentrionalis)*

Northern long-eared bats (NLEB) have the potential to inhabit the project limits because they roost in trees, bridges and culverts. 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 1 to October 31, both dates inclusive.

The department has contracted with others and will perform the following operations after October 31 and prior to April 1:

- Cutting trees.

Schedule of Operations

Traffic shifts shown in a given stage may occur at different times during that stage depending on the controlling elements for a given traffic movement. The department anticipates the schedule for each stage shall be as follows:

Do not move to the next stage until all work in the current stage is completed or as approved by the engineer.

Contact the WisDOT signals group in writing 7 days prior to placing any long-term closures at signalized intersections or interchanges.

Preparation Stage Construction

Complete base patches and concrete repairs as needed to support traffic during Stages 1 and 2. Additional base patches and concrete repairs can be made to lane 1 and the inside shoulder in Stage 3.

- Base patch IH 41 NB and SB median shoulder and lane 1.
- Replace concrete in IH 41 NB and SB shoulder.

Stage 1 Construction

- Diamond grind IH 41 NB Capitol Dr on ramp.
- Base patch IH 41 NB Burleigh St on ramp.
- Construct beam guard and barrier on IH 41 NB Burleigh St on ramp.

Stage 1N Construction

- Install storm sewer pipes at Station 198+00 RT, Station 204+07 RT, Station 214+00 LT, Station 220+27 LT, Station 224+03 LT.
- Base patch IH 41 NB and SB lane 2.
- Mill IH 41 NB and SB lanes 2 and 3.
- Pave lane 2 binder same night as milling. Construct a notched longitudinal wedge between lanes 1 and 2.
- Pave lane 2 surface. Construct a notched longitudinal wedge between lanes 2 and 3.

Stage 2 Construction

- Construct IH 41 NB and SB auxiliary lanes.
- Base patch IH 41 NB and SB lane 3.
- Overlay IH 41 NB and SB lane 3.
- Base patch, mill and overlay IH 41 NB and SB lane 2 remaining areas as contractor's schedule allows.
- Construct IH 41 NB bridge widening (B-40-359) over Union Pacific Railroad.
- Construct noise barrier N-40-88 along IH 41 SB Hampton Ave SB on ramp.
- Construct noise barrier N-40-105 along IH 41 NB from Menomonee River to Silver Spring Dr off ramp.
- Replace outside beam guards.
- Construct outside shoulder concrete barrier.
- Construct storm sewer on outside shoulder.
- Diamond grind IH 41 NB Hampton Ave on ramp.
- Replace approach slabs and expansion joints on outside half of B-40-359 and B-40-358.
- Replace approach slabs on outside halves of B-40-217 and B-40-216.
- Replace expansion joints on outside halves of B-40-356, B-40-357, B-40-363 and B-40-364.
- Bridge painting on B-40-356, B-40-357, B-40-358, and B-40-359.
- Paint outside halves of exterior girder faces on B-40-360.
- Thin polymer overlay on outside halves of B-40-356, B-40-357, B-40-333, and B-40-334.
- Polyester polymer concrete overlays on outside halves of B-40-216, B-40-217, B-40-358, B-40-359, B-40-363, and B-40-364.
- Deck seal B-40-0360.
- Replace C-40-47 wing wall.
- Grade IH 41 NB ditch from Station 193+00 to Station 200+00.
- Construct sign Structures S-40-462 (outside base), S-40-3084, S-40-3087, S-40-3086, S-40-3085, and S-40-3089.
- Signal improvements at IH 41 NB Hampton Ave ramp terminal.

Stage 3 Construction

- Mill and overlay IH 41 NB and SB lane 1.
- Construct or replace median concrete barrier.
- Replace median storm sewer inlets and pipes.
- Construct IH 41 SB bridge widening (B-40-358) over Union Pacific Railroad.
- Construct median lighting.
- Replace approach slabs and expansion joints on inside halves of B-40-358 and B-40-359.
- Replace approach slabs on inside halves of B-40-217 and B-40-216.
- Replace expansion joints on inside halves of B-40-356, B-40-357, B-40-363 and B-40-364.
- Bridge painting on B-40-363 and B-40-364.
- Thin polymer overlay on inside halves of B-40-356, B-40-357, B-40-333, and B-40-334.

- Polyester polymer concrete overlays on inside halves of B-40-216, B-40-217, B-40-358, B-40-359, B-40-363, and B-40-364.
- Paint inside halves of exterior girder faces on B-40-360.
- Construct sign Structures S-40-462 (inside base), S-40-3060, S-40-3061, and S-40-3062.

Stage 3B Construction

See work to be completed under Stage 3.

Stage 4 Construction

- High friction surface treatment application.
- Pavement marking.

Stage 5 Construction

- High friction surface treatment application.
- Pavement marking.

Echelon Paving

Pave the following locations utilizing echelon paving.

Stage 2 – NB lane 3 and outside shoulder

- Station 170+00 to Station 179+50
- Station 204+00 to Station 208+50
- Station 213+00 to Station 232+40
- Station 234+70 to Station 250+00
- Station 289+00 to Station 302+00
- Station 307+50 to Station 320+00
- Station 337+00 to Station 347+00

Stage 2 – SB lane 3 and outside shoulder

- Station 165+50 to Station 179+50
- Station 199+50 to Station 209+00
- Station 213+50 to Station 232+40
- Station 234+80 to Station 293+00
- Station 302+00 to Station 316+00
- Station 323+00 to Station 335+00

Stage 3 – NB lane 1 and inside shoulder

- Station 170+50 to Station 179+70
- Station 181+40 to Station 209+00
- Station 213+00 to Station 232+40
- Station 234+80 to Station 305+00
- Station 307+50 to Station 335+30
- Station 337+20 to Station 348+50

Stage 3 – SB lane 1 and inside shoulder

- Station 171+00 to Station 179+70
- Station 181+50 to Station 209+00
- Station 213+50 to Station 232+40
- Station 234+80 to Station 305+00
- Station 307+60 to Station 335+20
- Station 337+20 to Station 348+50

Complete concrete Base Patching before performing Removing Asphaltic Surface Milling in areas where base patched surface must be open to traffic immediately following the closure. Milling of concrete base patches is incidental to the item of removing asphaltic surface milling.

Complete concrete Base Patching after performing Removing Asphaltic Surface Milling in areas of long term lane closures.

There may be additional base patches to be completed after the asphaltic surface milling is complete as identified by the engineer.

Traffic is not permitted on milled surfaces.

During Stage 1N paving operations, pave the surface layer within 72 hours of paving the binder layer or before a weekend, whichever comes first. Maintain drainage off the roadway after milling lanes 2 and 3.

For B-40-358 and B-40-359, pour concrete for joints and deck widening with no more than one lane of live traffic on the bridge.

For B-40-216 and B-40-217, do not complete substructure work between April 15 and August 31 due to the presence of swallow nests under the structures.

For winter shutdown, place temporary pavement markings in the locations of final pavement markings.

Tree clearing will be completed by others prior to work beginning. The contractor is responsible for removing the cut trees within the right-of-way after April 10. Do not grub or operate heavy machinery on grassy areas prior to April 10. Tree removal is incidental to the grubbing item.

In areas where permanent right-of-way fencing is removed for contractor operations, the contractor shall install temporary fence at the end of each work day. The temporary chain link fence shall match the height of the adjacent fence and any gate shall be locked during times of no activity. The temporary fence is incidental to contractor mobilization.

For noise wall N-40-88 construction, the contractor may utilize N 117th St for access and material storage in coordination with the City of Wauwatosa. No construction activity is permitted within the City of Wauwatosa between 7PM and 7AM Monday through Saturday and on Sundays. The contractor is responsible for accommodating resident mailboxes on N 117th St. Contact City of Wauwatosa Engineer Bill Wehrley, (414) 479-8929 Ext. 5647, for coordination.

Contractor access permitted from N 112th St to access B-40-358 and B-40-359 substructure work areas south of railroad tracks. No crossing of the railroad tracks is permitted. Access to the north side of the tracks permitted from I-41 mainline.

Pavement Marking Operations

Coordinate installation of the final pavement markings with the roadway construction operations, when possible. Coordinate with the engineer to move pavement markings operations.

Lighting Equipment Installation

Coordinate work on lighting equipment with the roadway construction operations to minimize closures and delays to the traveling public.

Work by Others

In addition to the utility facilities referenced in the "Utilities" article of the special provisions where no adjustments are anticipated, the following utility companies have approved permits to install additional facilities within the project limits. Additional information regarding the proposed installation of utility facilities is available on permits issued to each utility company. To obtain these permits, contact WISDOT Utility Permitting at seutilitypermits@dot.wi.gov or (262) 521-4461.

The following is a general description of the proposed facilities:

City of Wauwatosa – Lighting has facilities listed below that are in close proximity to the planned improvements. No conflicts are anticipated.

- Wall pack light fixtures and conduit at Station 179+75 and 181+40, both from 40' LT to 65' RT, mounted on the Burleigh bridge concrete abutment below the steel beams.
- Street light pole at Station 14"NW1"+12 (Station 276+78, 108.0 LT) approximately 2.5' beyond DOT right-of-way, and approximately 2' off the back of curb on N. 117th St. will remain in place. Pole is approximately 5.5' from the new noise wall location. Provide notice to the City of Wauwatosa if the pole will be an obstruction to construction.
- Street light cable behind back of curb of N. 117th St. from Station 13"NW1"+25 to 23"NW1"+25 (Station 275+90 to 285+90) 3' beyond DOT right-of-way will remain in place.

Ramp Closures

All entrance and exit ramps shall be posted three business days in advance of their closure with dates and time of closure.

Do not close consecutive entrance ramps or consecutive exit ramps unless it is shown in the traffic control plans or approved by the engineer.

Rolling Closure

Short term freeway mainline rolling closures may be allowed for a maximum of 15 minutes for the removal and erection of sign structures, equipment moves across the road, or other required work as determined by the engineer. The department will allow short term rolling closures only between 2:00 AM and 4:00 AM, and they may only be performed by freeway law enforcement.

Obtain approval from the engineer before coordinating these closures with freeway law enforcement. Coordinate 14 calendar days before closure. Present the scheduled time for the short-term rolling closure at the weekly traffic meeting a minimum of one week before the closure.

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Work Zone Ingress/Egress

All locations of work zone egress or ingress for construction vehicles are subject to approval from the engineer. Submit to the engineer locations for freeway access into and out of the work zone for each stage and plans, for approval, that include signage and parallel deceleration and acceleration lanes for each freeway access into and out of the work zones. Submit the locations and plans 14 calendar days prior to each stage for approval by the engineer.

At the weekly traffic meetings, provide updated information to the Work Zone Access Plan, as approved by the engineer, to direct emergency responders accessing a mainline median barrier restricted work zone. Access for emergency responders shall be maintained at all times and not restricted by vehicles, equipment or the storage of equipment, vehicles or materials.

Access into the work zones are not allowed directly from the freeway during peak hours except where appropriate acceleration and deceleration lanes and traffic control provided, as approved by the engineer. Access into the work zones from the freeway will be allowed at other times, subject to approval by the engineer, if operations can be safely accomplished and do not result in non-construction traffic entering the work zones. Exiting work zones directly onto the freeway are only allowed when operations do not

obstruct or slow traffic on the freeway. All construction vehicles shall yield to all through traffic at all locations.

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Portable Changeable Message Signs (PCMS)

Obtain acceptance from the engineer regarding the wording of all messages on portable changeable message signs prior to placing the message.

Existing Dynamic Message Signs (DMS)

Contact Traffic Management Center (TMC) to utilize existing DMS sign S-40-426 for detour message. DMS sign is only to be used as a supplement to the Fixed Message Sign (FMS).

Local Street Work Restriction

General

Comply with all local ordinances that apply to local street work operations, including those pertaining to working during night time hours. Furnish any ordinance variance issued by the municipality or required permits to the engineer in writing 3 business days prior to performing such work.

Keep sidewalks open unless otherwise shown on the plans, or to facilitate the removal of structures and erection of girders or as approved by the engineer. Maintain pedestrian access to adjacent properties, businesses, schools, and at bus stops or provide where necessary, as directed by the engineer. Protect pedestrians from falling debris at all times when sidewalks are open.

Provide adequate temporary sidewalk and bridging between the curb and right-of-way line over freshly paved concrete or other obstructions in the sidewalk area, as directed by the engineer.

Construct temporary sidewalk surfaces with a minimum of 2 inches of temporary asphaltic surface, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer and a minimum of 4-feet wide. Compact the surface of temporary asphaltic surface until smooth and capable of supporting a wheelchair. The separate payment for the construction of temporary sidewalks including materials, labor, removal and restoration, will be made by the department under the bid item Temporary Crosswalk/Sidewalk, unless otherwise shown on the plans.

Inform engineer, property owners and tenants at least 48 hours prior to removing a driveway approach that serves that property. Schedule sidewalk and driveway approach removal and replacement so that the time lapse between removal and replacement is minimal.

Do not close residential approaches or remove from service without giving sufficient notice to the occupants of the premises to remove their vehicles prior to driveway removal or closing of the driveway approach access. If necessary, make other access arrangements, agreed to in writing and signed by the contractor and the property owner serviced by the driveway. Obtain approval from the engineer prior to alternating construction sequencing.

Existing trees, street light poles, hydrants and other utility poles are to remain in place during construction unless otherwise noted in the plan. Conduct an on-site visit prior to bidding to determine any special measures required for proper clearance between the trees, hydrants and poles and the paving equipment. No additional compensation will be made.

Roadway Work Restrictions

Definitions

The following definitions apply to this contract for local street work restrictions:

Peak Hours

6:00 AM – 9:00 PM	Monday, Tuesday, Wednesday, Thursday
6:00 AM – 9:00 PM	Friday
11:00 AM – 8:00 PM	Saturday
1:00 PM – 5:00 PM	Sunday

Off-Peak Hours

9:00 PM – 6:00 AM	Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM
9:00 PM – 11:00 AM	Friday PM to Saturday AM
8:00 PM – 1:00 PM	Saturday PM to Sunday PM
5:00 PM – 6:00 AM	Sunday PM to Monday AM

Local Street Work Restrictions

Make at least two lanes available to traffic during the Peak Hours unless approved by the engineer. One lane may be available to traffic during Off-Peak Hours only.

Comply with all local ordinances that apply to local street work operations, including those pertaining to working during night time hours. Furnish any ordinance variance issued by the municipality or required permits to the engineer in writing 3 days before performing this work.

All Work Restrictions

Excavation material and cleared and grubbed material should be stockpiled on upland areas an adequate distance away from wetlands, storm sewer inlets, floodplains, and the waterways as determined by engineer.

Provide the Wisconsin State Patrol, Milwaukee County Highway Maintenance, the City of Milwaukee Police Department, the City of Wauwatosa Police Department, and Milwaukee County Sheriff's Department with a 24-hour emergency contact number for when maintenance is required.

Replace standard spec 108.10.2.2(2) with the following:

Include requests for severe weather delays in the Monthly CPM Progress Schedule Updates. Indicate the number of adverse weather days that occurred during that month. Provide CPM progress schedule documentation as required under standard spec 108.4.7 of the Baseline CPM Progress Schedule/Monthly CPM Progress Schedule Updates special provision to show that the controlling item of work was delayed. Show that the delay was beyond the control of the contractor. The engineer will assess the contractor's submittal and indicate how many adverse weather days are confirmed.

Replace standard spec 108.10.2.2(3) with the following:

For each calendar month, the engineer will grant a severe weather day for each confirmed adverse weather day that exceeds the number of anticipated adverse weather days 108.10.2.2(1) shows. When the contractor requests severe weather days, the engineer will give the contractor a monthly written statement showing the number of days credited for severe weather. The engineer will only extend time for interim and contract completion dates for severe weather days that have been validated through an accepted CPM Progress Schedule Update.

General Work Restrictions

All work and operations shall be completed according to WisDOT Standard Detail Drawings, the MUTCD, and as directed by the engineer. Installing construction zone signage on existing sign posts or utility poles is not permitted.

Comply with all local ordinances that apply to work operations pertaining to work during night time work hours. Furnish in writing any ordinance variance issued by the municipality or required permits to the engineer no less than three days before performing such work.

Park or store equipment and materials only at work sites approved by the engineer.

Provide the Wisconsin State Patrol, Milwaukee County Highway Maintenance, the City of Milwaukee Police Department and Milwaukee County Sheriff's Department with a 24-hour emergency contact number for when maintenance is required.

Contractor Coordination

Attend weekly scheduling meetings to discuss the near-term schedule activities, address any long-term schedule issues, and discuss any relevant technical issues. Develop a rolling three-week schedule identifying the previous week worked and a two week “look ahead”. Provide sufficient detail to include actual and planned activities and all the subcontractors for offsite and construction activities, addressing all activities including ramp and lane closure schedules to be performed and identifying issues requiring engineering action or input.

Provide an individual to serve as the contractor’s sole point of contact for field utility coordination and communication for the duration of the project.

Freeway Work Restrictions

Definitions

The following definitions apply to this contract for freeway work restrictions:

System Ramps	Freeway to freeway ramps
Service Ramps	Freeway to/from local road ramps

The following definitions apply to this contract for freeway work restrictions:

Peak Hours

5:30 AM – 7:00 PM	Monday, Tuesday, Wednesday, Thursday
5:30 AM – 11:00 PM	Friday

Weekend Peak Hours

8:00 AM – 7:00 PM	Saturday, Sunday

Weekend Off-Peak Hours

7:00 PM – 11:00 PM	Saturday
7:00 PM – 9:30 PM	Sunday

Weekday Off-Peak Hours

7:00 PM – 9:30 PM	Monday, Tuesday, Wednesday, Thursday

Night Time Hours

9:30 PM – 5:30 AM	(Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
11:00 PM – 8:00 AM	(Friday PM to Saturday AM, Saturday PM to Sunday AM)

Service Ramp Closure Hours

9:00 PM – 6:00 AM	(Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
10:30 PM – 8:30 AM	(Friday PM to Saturday AM, Saturday PM to Sunday AM)

Full Freeway Closure/Hours

11:00 PM – 4:30 AM	(Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
11:00 PM – 6:00 AM	(Friday PM to Saturday AM, Saturday PM to Sunday AM)

Do not close freeway lanes or shoulders and ensure that the freeways are entirely clear of traffic during Weekday Peak Hours and Weekend Peak Hours, except as shown in the traffic control plans. Provide a minimum of two lanes in each direction during off-peak hours. Provide a minimum of one lane in each direction of the freeway that is entirely clear for traffic during Nighttime Hours except as allowed during full closure. Close service ramps only during Service Ramp Closure Hours, unless otherwise specified in the plan, or unless otherwise approved by the engineer for safety or operational reasons associated with other adjacent lane or freeway closures.

No two consecutive entrance ramps or consecutive exit ramps may be closed unless it is approved by the engineer.

Full closure and detouring of freeway roads will be restricted to Full Freeway Closure Hours. The freeway may be closed to facilitate the delivery of materials, mobilization of equipment, erection of girders, and to perform work related to major traffic shifts. Provide signed detour routes, as the plans show that are fully open and free of construction during all full freeway and system ramp closures.

Interim Completion of Work

01 Stage 1: May 15, 2025

Complete construction on Stage 1 and Stage 1N for IH 41 NB Station 165+00 to Station 220+00 to the stage necessary to place temporary barrier for Stage 2 and to allow construction on B-40-359 by May 15, 2025.

If the contractor fails to complete the work on Stage 1 and 1N, necessary to begin Stage 2 work on B-40-359, by May 15, 2025, the department will assess the contactor $2,500 in interim liquidated damages for each calendar day that the work remains incomplete beyond 12:01 AM on May 16, 2025. An entire calendar day will be charged for any period of time within a calendar day that the facility remains incomplete beyond 12:01 AM.

02 Stage 2 – Hampton Ave IH 41 SB On Ramp: 28 Calendar Days

Once the Hampton Ave IH 41 SB on ramp is closed to traffic for Stage 2 construction, complete all work necessary to open the Hampton Ave IH 41 SB on ramp to traffic within 28 days. Do not reopen until completing the following work: Barrier wall, guardrail, sign structure repair.

If the contractor fails to complete the listed work to re-open the Hampton Ave ramp within 28 calendar days of the closure date, the department will assess the contactor $2,500 in interim liquidated damages for each calendar day that the roadway remains closed and the work is incomplete beyond 28 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

03 Stage 2 – Capitol Dr IH 41 SB Off Ramp: 21 Calendar Days

Once the Capitol Dr IH 41 SB off ramp is closed to traffic for Stage 2 construction, complete all work necessary to open the Capitol Dr IH 41 SB off ramp to traffic within 21 days. Do not reopen until completing the following work: Auxiliary lane construction from STA 247+50 to 251+00, guardrail.

If the contractor fails to complete the work to re-open the Capitol Dr ramp within 21 calendar days of the closure date, the department will assess the contactor $2,500 in interim liquidated damages for each calendar day that the roadway remains closed beyond 21 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

04 Stage 2 Work: July 31, 2025

Complete construction on Stage 2 by July 31, 2025.

If the contractor fails to complete all work on Stage 2 by July 31, 2025, the department will assess the contactor $2,500 in interim liquidated damages for each calendar day that the work remains incomplete beyond 12:01 AM on August 1, 2025. An entire calendar day will be charged for any period of time within a calendar day that the facility remains incomplete beyond 12:01 AM.

05 High Friction Surface Treatment Station 170+60 to Station 179+60 NB and SB: August 31, 2025

Complete the high friction surface treatment from Station 170+60 to Station 179+60 NB and SB by August 31, 2025.

The high friction surface treatment will require the contractor to pave the areas completely to allow time for cure and favorable temperatures to apply the final HFST. The contractor is expected to account for this in their schedule.

If the contractor does not complete the high friction surface treatment from Station 170+60 to Station 179+60 NB and SB by August 31, 2025, the department will assess the contractor $3,000 in interim liquidated damages per day for each calendar day after 12:01 AM on September 1, 2025 that the high friction surface treatment is not complete. An entire calendar day will be charged for any period of time within a calendar day that the high friction surface treatment is not complete beyond 12:01 AM.

06 Stages 2 and 3 – Hampton Ave IH 41 SB Off Ramp: 70 Calendar Days

Once the Hampton Ave IH 41 SB off ramp is closed to traffic for Stages 2 and 3 construction, complete all work necessary to open the Hampton Ave IH 41 SB off ramp to traffic within 70 days. Do not reopen until completing the following work: B-40-216 PPC overlay, B-40-216 approach slab paving, B-40-216 approach guardrail.

If the contractor fails to complete the work to re-open the Hampton Ave ramp within 70 calendar days of the closure date, the department will assess the contactor $1,500 in interim liquidated damages for each calendar day that the roadway remains closed beyond 70 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

07 Stages 2 and 3 – Hampton Ave IH 41 NB On Ramp: 70 Calendar Days

Once the Hampton Ave IH 41 NB on ramp is closed to traffic for Stages 2 and 3 construction, complete all work necessary to open the Hampton Ave IH 41 NB on ramp to traffic within 70 days. Do not reopen until completing the following work: B-40-217 approach slabs, B-40-217 PPC overlay, IH 41 NB on ramp guardrail, diamond grinding, concrete pavement, inlet replacement.

If the contractor fails to complete the work to re-open the Hampton Ave ramp within 70 calendar days of the closure date, the department will assess the contactor $1,500 in interim liquidated damages for each calendar day that the roadway remains closed beyond 70 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

08 Stages 2 and 3 – Capitol Dr IH 41 NB Off Ramp: 56 Calendar Days

Once the Capitol Dr IH 41 NB off ramp is closed to traffic for Stages 2 and 3 construction, complete all work necessary to open the Capitol Dr IH 41 NB off ramp to traffic within 56 days. Do not reopen until completing the following work: Auxiliary lane and barrier wall construction from STA 217+00 to STA 221+25, B-40-359 PPC overlay, B-40-359 approach slabs, B-40-359 joint replacement.

If the contractor fails to complete the work to re-open the Capitol Dr ramp within 56 calendar days of the closure date, the department will assess the contactor $4,000 in interim liquidated damages for each calendar day that the roadway remains closed beyond 56 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

09 Stages 2, 3 and 3B – Capitol Dr IH 41 SB On Ramp: 91 Calendar Days

Once the Capitol Dr IH 41 SB on ramp is closed to traffic for Stages 2 and 3 construction, complete all work necessary to open the Capitol Dr IH 41 SB on ramp to traffic within 91 days. Do not reopen until completing the following work: Storm sewer crossing at STA 224+00, IH 41 SB auxiliary lane and barrier wall construction from STA 191+50 to STA 221+27, guardrail, B-40-358 bridge widening, B-40-358 PPC overlay, B-40-358 approach slabs, B-40-358 joint replacement.

If the contractor fails to complete the work to re-open the Capitol Dr ramp within 91 calendar days of the closure date, the department will assess the contactor $4,000 in interim liquidated damages for each calendar day that the roadway remains closed beyond 91 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

10 Stage 3 – Silver Spring Dr IH 41 SB On Ramp: 35 Calendar Days

Once the Silver Spring Dr IH 41 SB on ramp is closed to traffic for Stage 3 construction, complete all work necessary to open the Silver Spring Dr IH 41 SB on ramp to traffic within 35 days. Do not reopen until completing the following work: B-40-216 PPC overlay, B-40-216 approach slabs.

If the contractor fails to complete the work to re-open the Silver Spring Dr ramp within 35 calendar days of the closure date, the department will assess the contactor $4,000 in interim liquidated damages for each calendar day that the roadway remains closed beyond 35 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the roadway remains closed beyond 12:01 AM.

11 Stage 3B Work – Winter Shutdown: November 16, 2025

Open all three lanes and auxiliary lanes of IH 41 in the final configuration to traffic by November 16, 2025.

If the contractor fails to open three lanes and the auxiliary lanes of IH 41 by November 16, 2025 (not including overnight closures), the department will assess the contactor $5,000 in interim liquidated damages for each calendar day that the work remains incomplete beyond 12:01 AM on November 16, 2025. An entire calendar day will be charged for any period of time within a calendar day that the facility remains incomplete beyond 12:01 AM.

Winter Shutdown

Winter shutdown will commence with the completion of Stage 3B in the Fall of 2025. Do not resume work until April 1, 2026, unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned start of construction in 2026. Upon approval the engineer will issue a notice to proceed within 10 days of the approved start date.

Winter Maintenance

Milwaukee County will perform snow removal operations for freeway and ramp lanes that are open to traffic. The Cities of Milwaukee and Wauwatosa will perform snow removal operations for local streets that are open to traffic. Provide for snow removal in those areas closed to traffic as required to facilitate safe construction operations and as required to eliminate snow melt run-off from crossing active roadways. Provide Milwaukee County Highway Maintenance and Milwaukee County Sheriff's Department with a 24-hour emergency contact number for when maintenance is required.

sef-999-060 (20120330)

4. Lane Rental Fee Assessment.

A General

The contract designates some lane closures to perform the work. 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.

B Lane Rental Fee Assessment

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

- IH 41 Night-Time Lane Closure Extending into Weekday Peak Hours
  - 3 lanes to 2 lanes: $8,000 per lane, per direction of travel, per hour broken into 15-minute increments.
  - 2 lanes to 1 lane: $15,000 per lane, per direction of travel, per hour broken into 15-minute increments.

IH 41 Night-Time Lane Closure Extending into Weekend Peak Hours

- $6,000 per lane, per direction of travel, per hour broken into 15-minute increments.

Local Road Night Time Lane/Full Closure Extending into Peak Hours

- $1,000 per lane, per direction of travel, per hour broken into 15-minute increment.

IH 41 Service Ramp

- $1,000 per lane, per direction of travel, per hour broken into 15-minute increments.

IH 41 Full Freeway Closure

- 4:30 AM to 5:30 AM: $2,500 per lane, per direction of travel, per hour broken into 15-minute increments.
- After 5:30 AM: $8,000 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, roadway, or ramp closure 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.

Supplement standard spec 643.3.1 with the following:

IH 41 is an OSOW route. All fixed message and width restricted signs must be in place prior to the beginning of the width restricted stage to inform multi trip permit holders to utilize alternate routes. See Wisconsin Lane Closure System Advance Notification article to address lane restrictions in LCS.

Provide the Milwaukee County Sheriff's Department, the Wisconsin State Patrol, Milwaukee Police Department, Wauwatosa Police Department and the engineer a current telephone number with which the contractor or his representative can be contacted during non-working hours in the event a safety hazard develops.

Yield to all through traffic at all locations. Equip all vehicles or equipment operating in the live traffic lanes with a hazard identification beam (flashing yellow signal light) that is visible from 360 degrees. Operate the flashing yellow beam only when merging or exiting live traffic lanes or when parked or operating on shoulders, except when parked behind barrier wall. Do not park personal vehicles within the access control limits of the freeway. Do not cross live traffic lanes of IH 41 with equipment or vehicles.

Obtain prior approval from the engineer for the locations of egress or ingress for construction vehicles to prosecute the work.

Provide minimum 24-hour advance notification to the engineer for any LCS cancellations (not related to weather).

Do not disturb, remove, or obliterate any traffic control signs, advisory signs, sand barrel array, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer.

SER-643-001 (20230214)

Pedestrian Access

Maintain sidewalk at all times except under direction of the engineer. Provide a temporary surface for pedestrian access at all times in areas of sidewalk construction. Construct the temporary surface to meet Americans with Disabilities Act Accessibility Guidelines (ADAAG) requirements consisting of temporary asphaltic surface, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable. Maintain sidewalk access to all businesses and residences at all times. The Temporary Crosswalk/Sidewalk bid item is payment for maintaining crosswalks and sidewalks through the construction zone.

Maintain pedestrian movements crossing the construction zone at all intersections at all times, unless otherwise directed by the engineer. Construct pedestrian crossings at intersections to meet the requirements of the ADAAG consisting of temporary asphaltic surface, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable. At all times, ADAAG accessible pedestrian walkways shall be maintained free from mud, sand, construction debris, and construction equipment. Closures of sidewalk must be approved by the engineer and conform to signing shown on the traffic control plan. At locations where crosswalks exist on both sides of the intersection, closure of one of the two crosswalks is permitted as long as all other crossings are completely open. At intersections where only one crosswalk exists stage work to maintain a crosswalk at all times.

Schedule of Operations

Traffic shifts shown in a given stage may occur at different times during that stage depending on the controlling elements for a given traffic movement as approved by the engineer. The department anticipates that the schedule of major traffic shifts and roadway openings and closings for each stage shall be as follows, unless approved by the engineer:

Preparation Stage Traffic

- Close lane 1 and median shoulder of IH 41 NB and IH 41 SB during overnight hours.
- All through lanes open during peak hours.
- No ramp closures.

Stage 1 Traffic

- Close lane 3 and outside shoulder of IH 41 NB and IH 41 SB.
- Close outside lane of Burleigh St IH 41 NB on ramp during off peak hours.
- Close STH 175 (Appleton Ave) IH 41 SB on ramp for 21 days to accommodate traffic shift.
- Close North Ave IH 41 NB on ramp to accommodate traffic shift.
    a. Closure continues into Stage 2.

Stage 1N Traffic

- Close lanes 2, 3 and outside shoulder of IH 41 NB and IH 41 SB during overnight hours.
- Shift one lane of traffic to lane 1 and median shoulder.
- Five overnight full closures permitted per direction for storm sewer installation, base patching, and sign bridge demolition.
- Overnight ramp closures as needed to accommodate paving operations.

Stage 2 Traffic

- Close lanes 2, 3 and outside shoulder of IH 41 NB and IH 41 SB
- Shift two lanes of traffic to lane 1 and median shoulder
- Close North Ave IH 41 NB on ramp to accommodate traffic shift
- Close Burleigh St IH 41 NB on ramp during overnight hours
- Close Burleigh St IH 41 SB off ramp during overnight hours to accommodate paving operations
- Close Capitol Dr IH 41 NB off ramp for 56 days to accommodate auxiliary lane construction
    a. Closure continues into Stage 3
    b. May be closed simultaneously with SB on ramp
- Close Capitol Dr IH 41 NB on ramp during overnight hours
    a. Open ramp prior to Hampton Ave IH 41 NB on ramp closure
- Close Capitol Dr IH 41 SB on ramp for 91 days to accommodate auxiliary lane construction
    a. Close SB on ramp after opening Hampton Ave IH 41 SB on ramp
    b. Closure continues into Stages 3 and 3B
    c. May be closed simultaneously with NB off ramp

- Close Capitol Dr IH 41 SB off ramp for 21 days to accommodate auxiliary lane construction
    a. Close SB off ramp before closing Hampton Ave IH 41 SB off ramp
    b. Open SB off ramp before closing NB off ramp
- Close Hampton Ave IH 41 SB on ramp for 28 days to accommodate barrier wall and auxiliary lane construction
    a. Close SB on ramp before closing Capitol Dr IH 41 SB on ramp
- Close Hampton Ave IH 41 NB on ramp for 70 days to accommodate B-40-217 construction
    a. Close NB on ramp after opening Capitol Dr IH 41 NB on ramp
    b. Closure continues into Stage 3
- Close Hampton Ave IH 41 SB off ramp for 70 days to accommodate B-40-216 construction
    a. Close SB off ramp after opening Capitol Dr IH 41 SB off ramp
    b. Closure continues into Stage 3

Stage 3 Traffic

- Close lanes 1, 2, and median shoulder of IH 41 NB and IH 41 SB.
- Shift two lanes of traffic to lane 3 and outside shoulder.
- Continue Capitol Dr IH 41 NB off ramp closure to accommodate B-40-359 PPC overlay.
    a. Closure is a continuation from Stage 2.
- Continue Capitol Dr IH 41 SB on ramp closure to accommodate B-40-358 bridge widening.
    a. Closure is a continuation from Stage 2.
    b. Closure continues into Stage 3B.
- Continue Hampton Ave IH 41 NB on ramp closure to accommodate B-40-217 construction.
    a. Closure is a continuation from Stage 2.
- Continue Hampton Ave IH 41 SB off ramp closure to accommodate B-40-216 construction.
    a. Closure is a continuation from Stage 2.
- Close Silver Spring Dr IH 41 SB on ramp for 35 days to accommodate B-40-216 construction.

Stage 3B Traffic

- Close lanes 1, 2, and median shoulder of IH 41 NB and IH 41 SB.
- Shift two lanes of traffic to lane 3, outside shoulders, and completed auxiliary lanes.
- Continue Capitol Dr IH 41 SB on ramp closure to accommodate B-40-358 bridge widening.
- Coordinate Silver Spring IH 41 SB off ramp closure with project 1100-21-70.

Winter Shutdown Stage

- Open all lanes and auxiliary lanes to traffic in final lane configuration.

Stage 4 Traffic

- Close lanes 2, 3, and outside shoulder of IH 41 NB and IH 41 SB during overnight hours.
- Shift traffic to lane 1 and median shoulder.

Stage 5 Traffic

- Close lanes 1, 2, and median shoulder of IH 41 NB and IH 41 SB.
- Shift traffic to lane 3, outside shoulder, and auxiliary lanes.

Burleigh St Traffic

- Close lanes as needed during off-peak hours.

Silver Spring Dr Traffic

- Close lanes as needed during off-peak hours.
- Coordinate lane closures with long-term ramp closures.

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.

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 IH 41 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, May 23, 2025 to 6:00 AM Tuesday, May 27, 2025 for Memorial Day;
- From noon Thursday, July 3, 2025 to 6:00 AM Monday, July 7, 2025 for Independence Day;
- From noon Friday, August 29, 2025 to 6:00 AM Tuesday, September 2, 2025 for Labor Day;
- From noon Wednesday, November 26, 2025 to 6:00 AM Monday, December 1, 2025 for Thanksgiving;
- From noon Friday, May 22, 2026 to 6:00 AM Tuesday, May 26, 2026 for Memorial Day;
- From noon Thursday, July 2, 2026 to 6:00 AM Monday, July 6, 2026 for Independence Day.

stp-107-005 (20210113)

Freeway Special Event Restrictions

During the 2025 NFL Draft, scheduled for Thursday, April 24, 2025, through Saturday, April 26, 2025, keep open the following roadways:

- Two lanes on northbound IH 41 four hours prior to the event until it begins.
- Two lanes on southbound IH 41 until four hours after the event ends.

During Summerfest, schedule to be determined, keep open the following roadways until one hour after the event closes each night:

- Two open lanes on northbound IH 41.
- One open lane on southbound IH 41.

During Wisconsin State Fair, scheduled for July 31 through August 10, 2025, keep open the following roadways until one hour after the event closes each night:

- Two open lanes on northbound IH 41.
- One open lane on southbound IH 41.

On days with a Milwaukee Brewer home game at American Family Field, maintain two open lanes on northbound IH 41 until four hours after the event begins. IH 41 restrictions during other special events at American Family Field will be determined on an as needed basis as determined by the engineer.

During the US Women's Open Championship at Erin Hills, scheduled for May 29 through June 1, 2025, contact the engineer for event restriction requirements.

Special event work restrictions do not apply to roadways or ramps already closed long term during construction as shown on the plans. New long-term closures of ramps and roadways must be coordinated with the special event work restrictions.

These restrictions also apply to hauling of materials and equipment.

7. Utilities.

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

stp-107-065 (20080501)

Utility coordination was completed for ID 1100-20-70 and 1100-20-71. The utility companies and facilities listed below apply to both project IDs.

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 owner. Follow-up with a confirmation notice to the engineer and the utility owner not less than three working days before the site will be ready for the utility owner to begin its work.

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 Wisconsin Department of Transportation during the bid preparation process or from the project engineer after the contract has been awarded and executed.

The following utility companies have facilities within the project area; however, no adjustments are anticipated:

AT&T Local Network – Communications

AT&T Wisconsin – Communications has a pedestal at Station 26+85 NW1, 17' LT, with cable rising on WE-Energies pole at Station 26+83 NW1, 3' LT, and cables going overhead north and west from this location. There is an AT&T pedestal located at Station 33+30, 66 RT near PB1 and buried cable along the right-of-way line of W Hampton Ave going east. AT&T has fiber cable crossing overhead at Station 343+38. Facilities have been deemed to not be in conflict.

City of Milwaukee – Conduit

City of Milwaukee – Sewer

City of Milwaukee – Water

City of Wauwatosa – Sewer has facilities at the following locations that cross below the N-40-88 noise wall. No conflicts are anticipated.

36” Storm Sewer located at Station 276+30, 100’ LT

24” Storm Sewer located at Station 283+70, 130’ LT

18” Storm Sewer located at Station 284+85, 135’ LT

12” Storm Sewer located at Station 288+90, 200’ LT

Level 3 – Communications

Midwest Fiber Networks – Communications

Milwaukee Metropolitan Sewer District (MMSD) - Sewer

Spectrum (Charter) – Communications

Sprint – Communications

Wauwatosa Water Utility – Water has existing facilities that cross below the N-40-88 noise wall at Station 13+15 NW1 and Station 13+25 NW1. Maintain a 5’ separation from the wall posts to the water facilities. No conflicts are anticipated.

WE Energies – Electric

WE Energies – Gas

WIN - Communications

8. Other Contracts.

Coordinate your work according to standard spec 105.5.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others.

The following projects may be under construction concurrently with the work under this contract. Coordinate activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others.

Project 2025-03-73

WIS 190 Resurfacing

Brookfield Rd to 124th St

WisDOT Contact: Martin Villaca, WisDOT Design Project Manager

(262) 548-6456

Martin.villaca@dot.wi.gov

Project 2010-03-72

WIS 175 Resurfacing

WIS 181 to IH 41

WisDOT Contact: Deb Tarnow, WisDOT Design Project Manager

(262) 548-6768

Debra.tarnow@dot.wi.gov

Project 2753-02-73

Silver Spring Dr WB Bridge (B-67-085) Rehabilitation
Bridge over Menomonee River
WisDOT Contact: Phil Ciha, WisDOT Construction Project Manager
(414) 750-1951
Philip.ciha@dot.wi.gov

Project 1100-21-70

IH 41 Rehabilitation
Silver Spring Dr to Good Hope Rd
WisDOT Contact: Alex Grasse, WisDOT Construction Project Manager
(414) 750-1404
Alex.grasse@dot.wi.gov

Project 1100-21-71

IH 41 Mill Rd Bridge Replacements
IH 41 over Mill Rd
WisDOT Contact: Alex Grasse, WisDOT Construction Project Manager
(414) 750-1404
Alex.grasse@dot.wi.gov

Project 1100-05-73 and 1090-03-75

IH 894 Resurfacing and Hale Interchange Bridge Rehabilitations
84th St to N Lincoln Ave
WisDOT Contact: Paul Schindelholz, WisDOT Construction Project Manager
(262) 548-8723
Paul.schindelholz@dot.wi.gov

Project 1100-45-70 and 1100-46-71

IH 894 Resurfacing and Loomis Rd Bridge Replacement
35th St to 84th St
WisDOT Contact: Eric Hanson, WisDOT Construction Project Manager
(414) 840-9341
EricD.hanson@dot.wi.gov

9. Railroad Insurance and Coordination - Union Pacific Railroad Company.

A. Description

Comply with standard spec 107.17 for all work affecting Union Pacific Railroad Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Union Pacific Railroad Company.

The required insurance is modified per the attached Contractor Right of Entry (CROE).

Notify evidence of the required coverage, and duration to David C. LaPlante, Director -Real Estate-Special and Public Projects, 1400 Douglas St. STOP 1690, Omaha, NE 68179; Telephone: (402) 544-8563; E-mail: dclaplante@up.com.

Also send a copy to the following: Jason Kazmierski, SE Region Railroad Coordinator, 141 N. Barstow Street, Waukesha, WI 53188; Telephone (262)548-6700; E-mail jason.kazmierski@dot.wi.gov

Include the following information on the insurance document:

- Project ID: 1100-20-70, 1100-20-71
- Work Performed on or within 50' of RR right-of-way:

  177268N widen structure, new crash walls, remove lead-based paint over tracks, traffic control (B-40-358/359)

  178868U mill and overlay, traffic control

  Traffic control for balance of crossings listed below

#	Route Name	City/County	Crossing ID	RR Subdivision	RR Milepost	Comment
1	I 41/US 45	Wauwatosa/Milwaukee	177268N	Milwaukee Sub	0093.800	B-40-358 B-40-359 Traffic Control
2	West Burleigh Street	Wauwatosa/Milwaukee	177267G	Milwaukee Sub	0093.140	Traffic Control
3	West Capitol Drive WI 190	Wauwatosa/Milwaukee	177270P	Milwaukee Sub	0094.320	Traffic Control
4	I 41/WI 45	Milwaukee/Milwaukee	178868U	Milwaukee Sub	0096.710	Work Near Traffic Control
5	West Silver Spring Drive CTH E	Milwaukee/Milwaukee	178866F	Milwaukee Sub	0096.270	Traffic Control
6	West Silver Spring Drive CTH E	Milwaukee/Milwaukee	178776G	Adams Sub	0313.690	Traffic Control

A.2 Train Operation

#	Passenger Train Volume	Passenger Train Speed	Freight Train Volume	Freight Train Speed	Frequency	Switch Train Comment*
1	N/A	N/A	7	10 mph	Daily	There are switch trains in addition to through trains
2	N/A	N/A	7	40 mph	Daily	There are switch trains in addition to through trains
3	N/A	N/A	7	40 mph	Daily	There are switch trains in addition to through trains
4	N/A	N/A	7	20 mph	Daily	There are switch trains in addition to through trains
5	N/A	N/A	7	20 mph	Daily	There are switch trains in addition to through trains
6	N/A	N/A	8	30 mph	Daily	There are switch trains in addition to through trains

* Switch trains are in addition to freight and passenger trains.

A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination

Construction Contact

Chris T. Keckeisen, Manager Special Projects - Industry & Public Projects Engineering Department; 1400 Douglas, MS 0910, Omaha, NE, 68179; Telephone (402) 5445131; E-mail ctkeckei@up.com for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

Flagging Contact

See Construction Contact. If more than 30 days of flagging is required contact UP 30 days prior to needing a flagger on site. Reference the Wisconsin Milepost and Subdivision located in A.1.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact the UP Call Before You Dig line at (800) 336-9193 at least five working days before the locate is needed. Normal business hours are 6:30 AM to 6:30 PM, Central Time, Monday through Friday, except holidays and are subject to change. Calls will be routed at all times in case of an emergency. Reference the Wisconsin Milepost and Subdivision located in A.1.

UP will only locate railroad owned cable buried in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions and will be accomplished without cost to the contractor. None.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

A.6 Temporary Clearances During Construction

Replace standard spec 107.17.1(3) items 4.1 and 4.2 with the following:

4.1 Provide 15 feet 0 inches plus 1.5 inches per degree of track curvature, measured horizontally from the track center line.

4.2 Provide 21 feet 6 inch measured vertically above the top of the highest rail.

A.7 Contractor Right of Entry

The contractor will be required to obtain a Right of Entry from Union Pacific Railroad Company prior to working on railroad right-of-way. Contact the person in A.1 Railroad Insurance Requirements at least 45 days prior to start of work. The Right of Entry will be issued at no cost to the contractor. If the contractor pays for the Right of Entry, it will not be reimbursed by the project. The contractor will be required to fill out the attached contractor right of entry. Reference A.1 Railroad Insurance Requirements for railroad protective liability insurance requirements. The required insurance is modified per the attached Contractor Right of Entry (CROE).

B Railroad Flagging

Arrange with the railroad for the flagging of trains and safety of railroad operations if clearances specified in standard spec 107.17.1 are not maintained during construction operations. At any other time in railroad representative's judgment, the contractor's work or operations constitute an intrusion into the track zone and create an extraordinary hazard to railroad traffic, and at any other time when flagging protection is necessary for safety to comply with the operating rules of the railroad.

Projects with concurrent activity may require more than one flagger.

Projects with heavy contractor activity within 25 feet of the centerline of any track or unusual or heavy impact on railroad facilities will normally require a full-time flagger.

The department and railroad will monitor operations for compliance with the above flagging requirements. Violations may result in removal from railroad property until arrangements to adhere to the flagging requirements are satisfied. If the railroad imposes additional flagging requirements beyond the above flagging requirements due to the previous violations, the contractor shall bear all costs of the additional flagging requirements.

C Flagging by Railroad– Railroad Does Not Pay Flagging Costs

C.1 General

Replace paragraph (1,3 and 4) of standard spec 107.17.1 with the following:

(1) Coordinate with the railroad for all work performed within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. Include the following on all submittals and other written communications with the railroad:

- WisDOT crossing number.
- Railroad milepost.
- Railroad subdivision.

(3) Perform all work within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way in a way that does not interfere with the safe and uninterrupted operation of railroad traffic. Maintain clearances during construction as follows:

1. Do not operate equipment closer than 25 feet horizontally from a track centerline or 22 feet vertically above the top of a rail, except under the protection of railroad flaggers.
2. Do not store materials or equipment closer than 25 feet horizontally from a track centerline.
3. Provide an obstruction-free work zone adjacent to a track extending 12 feet or more horizontally on both sides of the track centerline. Keep this work zone free of construction debris.
4. Unless the railroad's chief engineering officer approves otherwise in writing, maintain minimum clearances from falsework, forms, shoring, and other temporary fixed objects as follows:
    4.1 Provide 12 feet, plus 1.5 inches per degree of track curvature, measured horizontally from the track centerline.
    4.2 Provide 21 feet, plus compensation for super-elevated track, measured vertically above the top of the highest rail.

(4) Comply with the railroad’s rules and regulations when work is within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. If the railroad’s chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and make payment directly to the railroad. Notify the appropriate railroad representative as listed in section A.3 above, in writing, at least 40 business days before starting work near a track. Provide the specific time planned to start the operations.

C.2 Rates - Union Pacific

The following rates, reimbursement provisions, and excluded conditions will be used to determine the contractor’s cost of flagging:

- $1,150 daily rate for an eight-hour day (including wages, labor surcharges, lodging, vehicle and mileage expenses),
- $1,500 "Rest Time" or nightly rate for weekday overnight work for an eight-hour day (including wages, labor surcharges, lodging, vehicle and mileage expenses)
- $1,260 daily rate for an eight-hour day on Saturdays, Sundays, or holidays (including wages, labor surcharges, lodging, vehicle and mileage expenses)
- $1,500 "Rest Time" or nightly rate for weekend overnight work for an eight-hour day (including wages, labor surcharges, lodging, vehicle and mileage expenses)
- $175 per hour overtime rate for all time worked before or after the regular assigned eight hours on any day, or for a minimum three hour call on Saturdays, Sundays, or Holidays.

The railroad will require pre-payment. The flagger is required to set flags each day in advance of the contractor commencing work that will require flagging. The flagger must also remove the flags each day after the completion of work that required flagging. Any time worked before or after the minimum eight-hour flagging day to set or remove flags will be billed at the overtime rate. The contractor is responsible for knowing the requirements of the railroad for arranging and terminating flagging services and for the associated costs of those services.

C.3 Reimbursement Provisions

The actual cost for flagging will be billed by the railroad. After the completion of the work requiring flagging protection as provided in section B above, the department will reimburse 50% of the cost of such services up to the rates provided above based on paid railroad invoices, except for the excluded conditions enumerated below. In the event actual flagging rates exceed the rates stated above, the department will reimburse 100% of the portion of the rate that is greater than the rates stated above.

C.4 Excluded Conditions

The department will not reimburse any of the cost for additional flagging attributable to the following:

1. Additional flagging requirements imposed by the railroad beyond the flagging requirements provided in subsection B above due to violations by the contractor.
2. Temporary construction crossings arranged for by the contractor.

The contractor shall bear all costs of the additional flagging requirements for the excluded conditions.

C.5 Payment for Flagging

The department will pay for the department's portion of flagging reimbursement as specified in section C of this provision under the following item:

ITEM NUMBER	DESCRIPTION	UNIT
801.0117	Railroad Flagging Reimbursement	DOL

The reimbursement payment, as shown on the Schedule of Items, is solely for department accounting purposes. Actual flagging costs will vary based on the contractor's means and methods.

Railroads may issue progressive invoices. Notify the railroad when the work is completed and request a final invoice from the railroad. Promptly pay railroad-flagging invoices, less any charges that may be in dispute. The department will withhold flagging reimbursement until any disputed charges are resolved and the final invoice is paid. No reimbursement for flagging will be made by the department if a violation of subsection B is documented.

D Rail Security Awareness and Contractor Orientation

Prior to entry on railroad right-of-way, the contractor shall arrange for on-line security awareness and contractor orientation training and testing and be registered through "e-RAILSAFE" for all contractor and subcontractor employees working on railroad right-of-way. See e-railsafe.com "Information". The security awareness and contractor orientation training are shown under the railroad's name.

The security awareness and contractor orientation certification is valid for 2 year(s) and must be renewed for projects that will carry over beyond the 2 year period. Contractor and subcontractor employees shall wear the identification badge issued by e-RAILSAFE when on railroad right-of-way. Costs associated with training and registration are incidental to other items in the contract.

CONTRACTOR'S
RIGHT OF ENTRY AGREEMENT

THIS AGREEMENT is made and entered into as of the_____day of_____, 20_____, by and between **UNION PACIFIC RAILROAD COMPANY**, a Delaware corporation ("Railroad"); and _____, a _____ corporation ("Contractor").

RECITALS:

Contractor has been hired by_____to perform work relating to_____(the "Work") with all or a portion of such Work to be performed on property of Railroad in the vicinity of Railroad's Milepost _____on Railroad's_____[Subdivision or Branch] [at or near DOT No. _____located at or near_____, in_____County, State of_____, as such location is in the general location shown on the print marked **Exhibit A**, attached hereto and hereby made a part hereof, which Work is the subject of a contract dated_____between Railroad and_____.

Railroad is willing to permit Contractor to perform the Work described above at the location described above subject to the terms and conditions contained in this agreement

AGREEMENT:

NOW, THEREFORE, it is mutually agreed by and between Railroad and Contractor, as follows:

ARTICLE 1 - DEFINITION OF CONTRACTOR.

For purposes of this agreement, all references in this agreement to Contractor shall include Contractor's contractors, subcontractors, officers, agents and employees, and others acting under its or their authority. For purposes of clarity, Contractor agrees that any CIC (defined below) hired by Contractor is a subcontractor of Contractor and therefore included in the defined term Contractor pursuant to the foregoing sentence.

ARTICLE 2 - RIGHT GRANTED; PURPOSE.

Railroad hereby grants to Contractor the right, during the term hereinafter stated and upon and subject to each and all of the terms, provisions and conditions herein contained, to enter upon and have ingress to and egress from the property described in the Recitals for the purpose of performing the Work described in the Recitals above. The right herein granted to Contractor is limited to those portions of Railroad's property specifically described herein, or as designated by the Railroad Representative named in Article 4.

ARTICLE 3 - TERMS AND CONDITIONS CONTAINED IN EXHIBITS B AND C.

The terms and conditions contained in **Exhibit B** and **Exhibit C**, attached hereto, are hereby made a part of this agreement.

ARTICLE 4 - ALL EXPENSES TO BE BORNE BY CONTRACTOR; RAILROAD REPRESENTATIVE.

A. Contractor shall bear any and all costs and expenses associated with any Work performed by Contractor (including without limitation any CIC), or any costs or expenses incurred by Railroad relating to this agreement.

B. Contractor shall coordinate all of its Work with the following Railroad representative or his or her duly authorized representative (the "Railroad Representative"):

_____
_____
_____
_____

C. Contractor, at its own expense, shall adequately police and supervise all Work to be performed by Contractor and shall ensure that such Work is performed in a safe manner as set forth in Section 7 of **Exhibit B.** The responsibility of Contractor for safe conduct and adequate policing and supervision of Contractor's Work shall not be lessened or otherwise affected by Railroad's approval of plans and specifications involving the Work, or by Railroad's collaboration in performance of any Work, or by the presence at the Work site of a Railroad Representative, or by compliance by Contractor with any requests or recommendations made by Railroad Representative.

ARTICLE 5 - SCHEDULE OF WORK ON A MONTHLY BASIS.

The Contractor, at its expense, shall provide on a monthly basis a detailed schedule of Work to the Railroad Representative named in Article 4B above. The reports shall start at the execution of this agreement and continue until this agreement is terminated as provided in this agreement or until the Contractor has completed all Work on Railroad's property.

ARTICLE 6 - TERM; TERMINATION.

A. The grant of right herein made to Contractor shall commence on the date of this agreement, and continue until_____, unless sooner terminated as herein provided, or at such time as Contractor has completed its Work on Railroad's property, whichever is earlier. Contractor agrees to notify the Railroad Representative in writing when it has completed its Work on Railroad's property.

B. This agreement may be terminated by either party on ten (10) days written notice to the other party.

ARTICLE 7 - CERTIFICATE OF INSURANCE.

A. Before commencing any Work and throughout the entire term of this Agreement, Contractor, at its expense, shall procure and maintain in full force and effect the types and minimum limits of insurance specified in **Exhibit C** of this agreement and require each of its subcontractors to include the insurance endorsements as required under Section 12 of **Exhibit B** of this agreement.

B. Not more frequently than once every two (2) years, Railroad may reasonably modify the required insurance coverage to reflect then-current risk management practices in the railroad industry and underwriting practices in the insurance industry.

C. Upon request of Railroad, Contractor shall provide to Railroad a certificate issued by its insurance

carrier evidencing the insurance coverage required under **Exhibit B**.

D. Contractor understands and accepts that the terms of this Article are wholly separate from and independent of the terms of any indemnity provisions contained in this Agreement.

E. Upon request of Railroad, insurance correspondence, binders, policies, certificates and endorsements shall be sent to:

Union Pacific Railroad Company

[Insert mailing address]

Attn:

Project No. _____

ARTICLE 8 - PRECONSTRUCTION MEETING.

If the Work to be performed by the Contractor will involve the Railroad providing any flagging protection (or if a CIC is approved to provide flagging protection pursuant to the terms set forth herein) and/or there is separate work to be performed by the Railroad, the Contractor confirms that no work shall commence until the Railroad and Contractor participate in a preconstruction meeting involving flagging procedures and coordination of work activities of the Contractor and the Railroad (and any CIC, as applicable.)

ARTICLE 9. DISMISSAL OF CONTRACTOR'S EMPLOYEE.

At the request of Railroad, Contractor shall remove from Railroad's property any employee of Contractor who fails to conform to the instructions of the Railroad Representative in connection with the Work on Railroad's property, and any right of Contractor shall be suspended until such removal has occurred. Contractor shall indemnify Railroad against any claims arising from the removal of any such employee from Railroad's property.

ARTICLE 10. ADMINISTRATIVE FEE.

Upon the execution and delivery of this agreement, Contractor shall pay to Railroad no fee as reimbursement for clerical, administrative and handling expenses in connection with the processing of this agreement.

ARTICLE 11. CROSSINGS: COMPLIANCE WITH MUTCD AND FRA GUIDELINES.

A. No additional vehicular crossings (including temporary haul roads) or pedestrian crossings over Railroad's trackage shall be installed or used by Contractor without the prior written permission of Railroad.

B. Any permanent or temporary changes, including temporary traffic control, to crossings must conform to the Manual of Uniform Traffic Control Devices (MUTCD) and any applicable Federal Railroad Administration rules, regulations and guidelines, and must be reviewed by the Railroad prior to any changes being implemented. In the event the Railroad is found to be out of compliance with federal safety regulations due to the Contractor's modifications, negligence, or any other reason arising from the Contractor's presence on the Railroad's property, the Contractor agrees to assume liability for any civil penalties imposed upon the Railroad for such noncompliance.

ARTICLE 12.- EXPLOSIVES.

Explosives or other highly flammable substances shall not be stored or used on Railroad's property without the prior written approval of Railroad.

IN WITNESS WHEREOF, the parties hereto have duly executed this agreement in duplicate as of the date first herein written.

UNION PACIFIC RAILROAD COMPANY

By: _____

Title: _____

_____
(Name of Contractor)

By: _____

Name: _____

Title: _____

Phone: _____

E-Mail: _____

EXHIBIT A
TO
CONTRACTOR'S RIGHT OF ENTRY AGREEMENT

Exhibit A will be a print showing the general location of the work site.

EXHIBIT B
TO
CONTRACTOR'S RIGHT OF ENTRY AGREEMENT

Section 1. NOTICE OF COMMENCEMENT OF WORK - RAILROAD FLAGGING - PRIVATE FLAGGING.

A. Contractor agrees to notify the Railroad Representative at least ten (10) working days in advance of Contractor commencing its Work and at least thirty (30) working days in advance of proposed performance of any Work by Contractor in which any person or equipment will be within twenty-five (25) feet of any track, or will be near enough to any track that any equipment extension (such as, but not limited to, a crane boom) will reach to within twenty-five (25) feet of any track.

B. No work of any kind shall be performed, and no person, equipment, machinery, tool(s), material(s), vehicle(s), or thing(s) shall be located, operated, placed, or stored within twenty-five (25) feet of any of Railroad's track(s) at any time, for any reason, unless and until a Railroad approved flagman is provided to watch for trains. Upon receipt of such thirty (30)-day notice, the Railroad Representative will determine and inform Contractor whether a flagman need be present and whether Contractor needs to implement any special protective or safety measures.

C. Contractor shall be permitted to hire a private contractor to perform flagging or other special protective or safety measures (such private contractor being commonly known in the railroad industry as a contractor-in-charge ("CIC")) in lieu of Railroad providing such services or in concert with Railroad providing such services, subject to prior written approval by Railroad, which approval shall be in Railroad's sole and absolute discretion. If Railroad agrees to permit Contractor to utilize a CIC pursuant to the preceding sentence, Contractor shall obtain Railroad's prior approval in writing for each of the following items, as determined in all respects in Railroad's sole and absolute discretion: (i) the identity of the third-party performing the role of CIC; (ii) the scope of the services to be performed for the project by the approved CIC; and (iii) any other terms and conditions governing such services to be provided by the CIC. If flagging or other special protective or safety measures are performed by an approved CIC, Contractor shall be solely responsible for (and shall timely pay such CIC for) its services. Railroad reserves the right to rescind any approval pursuant to this Section 1, Subsection C., in whole or in part, at any time, as determined in Railroad's sole and absolute discretion.

D. If any flagging or other special protective or safety measures are performed by employees of Railroad and/or any contractor of Railroad, Railroad will bill Contractor for such expenses incurred by Railroad, unless Railroad and a federal, state or local governmental entity have agreed that Railroad is to bill such expenses to the federal, state or local governmental entity. If Railroad will be sending the bills to Contractor, Contractor shall pay such bills within thirty (30) days of Contractor's receipt of billing.

E. If any flagging or other special protective or safety measures are performed by Railroad or a CIC, Contractor agrees that Contractor is not relieved of any of its responsibilities or liabilities set forth in this agreement.

F. The provisions set forth in this subsection are only applicable for Flagging Services performed by employees of Railroad: the rate of pay per hour for each flagman will be the prevailing hourly rate in effect for an eight-hour day for the class of flagmen used during regularly assigned hours and overtime in accordance with labor agreements and schedules in effect at the time the Work is performed. In addition to the cost of such labor, a composite charge for vacation, holiday, health and welfare, supplemental sickness, Railroad Retirement and unemployment compensation, supplemental pension, Employees Liability and Property Damage and Administration will be included, computed on actual payroll. The composite charge will be the prevailing composite charge in effect at the time the Work is performed. One and one-half times the current hourly rate is

paid for overtime, Saturdays and Sundays, and two and one-half times current hourly rate for holidays. Wage rates are subject to change, at any time, by law or by agreement between Railroad and its employees, and may be retroactive as a result of negotiations or a ruling of an authorized governmental agency. Additional charges on labor are also subject to change. If the wage rate or additional charges are changed, Contractor (or the governmental entity, as applicable) shall pay on the basis of the new rates and charges. If flagging is performed by Railroad, reimbursement to Railroad will be required covering the full eight-hour day during which any flagman is furnished, unless the flagman can be assigned to other Railroad work during a portion of such day, in which event reimbursement will not be required for the portion of the day during which the flagman is engaged in other Railroad work. Reimbursement will also be required for any day not actually worked by the flagman following the flagman's assignment to work on the project for which Railroad is required to pay the flagman and which could not reasonably be avoided by Railroad by assignment of such flagman to other work, even though Contractor may not be working during such time. When it becomes necessary for Railroad to bulletin and assign an employee to a flagging position in compliance with union collective bargaining agreements, Contractor must provide Railroad a minimum of five (5) days notice prior to the cessation of the need for a flagman. If five (5) days notice of cessation is not given, Contractor will still be required to pay flagging charges for the five (5) day notice period required by union agreement to be given to the employee, even though flagging is not required for that period. An additional thirty (30) days notice must then be given to Railroad if flagging services are needed again after such five-day cessation notice has been given to Railroad.

Section 2. LIMITATION AND SUBORDINATION OF RIGHTS GRANTED

A. The foregoing grant of right is subject and subordinate to the prior and continuing right and obligation of the Railroad to use and maintain its entire property including the right and power of Railroad to construct, maintain, repair, renew, use, operate, change, modify or relocate railroad tracks, roadways, signal, communication, fiber optics, or other wirelines, pipelines and other facilities upon, along or across any or all parts of its property, all or any of which may be freely done at any time or times by Railroad without liability to Contractor or to any other party for compensation or damages.

B. The foregoing grant is also subject to all outstanding superior rights (whether recorded or unrecorded and including those in favor of licensees and lessees of Railroad's property, and others) and the right of Railroad to renew and extend the same, and is made without covenant of title or for quiet enjoyment.

Section 3. NO INTERFERENCE WITH OPERATIONS OF RAILROAD AND ITS TENANTS.

A. Contractor shall conduct its operations so as not to interfere with the continuous and uninterrupted use and operation of the railroad tracks and property of Railroad, including without limitation, the operations of Railroad's lessees, licensees or others, unless specifically authorized in advance by the Railroad Representative. Nothing shall be done or permitted to be done by Contractor at any time that would in any manner impair the safety of such operations. When not in use, Contractor's machinery and materials shall be kept at least twenty-five (25) feet from the centerline of Railroad's nearest track, and there shall be no vehicular crossings of Railroads tracks except at existing open public crossings.

B. Operations of Railroad and work performed by Railroad personnel and delays in the Work to be performed by Contractor caused by such railroad operations and Work are expected by Contractor, and Contractor agrees that Railroad shall have no liability to Contractor, or any other person or entity for any such delays. The Contractor shall coordinate its activities with those of Railroad and third parties so as to avoid interference with railroad operations. The safe operation of Railroad train movements and other activities by Railroad takes precedence over any Work to be performed by Contractor.

Section 4. LIENS.

Contractor shall pay in full all persons who perform labor or provide materials for the Work to be performed by Contractor. Contractor shall not create, permit or suffer any mechanic's or materialmen's liens of any kind or nature to be created or enforced against any property of Railroad for any such Work performed. Contractor shall indemnify and hold harmless Railroad from and against any and all liens, claims, demands, costs or expenses of whatsoever nature in any way connected with or growing out of such Work done, labor performed, or materials furnished. If Contractor fails to promptly cause any lien to be released of record, Railroad may, at its election, discharge the lien or claim of lien at Contractor's expense.

Section 5. PROTECTION OF FIBER OPTIC CABLE SYSTEMS.

A. Fiber optic cable systems may be buried on Railroad's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Contractor shall visit www.up.com/CBUD to complete and submit the required form to determine if fiber optic cable is buried anywhere on Railroad's property to be used by Contractor. If it is, Contractor will telephone the telecommunications company(ies) involved, make arrangements for a cable locator and, if applicable, for relocation or other protection of the fiber optic cable. Contractor shall not commence any Work until all such protection or relocation (if applicable) has been accomplished.

B. IN ADDITION TO OTHER INDEMNITY PROVISIONS IN THIS AGREEMENT, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD RAILROAD HARMLESS FROM AND AGAINST ALL COSTS, LIABILITY AND EXPENSE WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, COURT COSTS AND EXPENSES) ARISING OUT OF ANY ACT OR OMISSION OF CONTRACTOR, ITS AGENTS AND/OR EMPLOYEES, THAT CAUSES OR CONTRIBUTES TO (1) ANY DAMAGE TO OR DESTRUCTION OF ANY TELECOMMUNICATIONS SYSTEM ON RAILROAD'S PROPERTY, AND/OR (2) ANY INJURY TO OR DEATH OF ANY PERSON EMPLOYED BY OR ON BEHALF OF ANY TELECOMMUNICATIONS COMPANY, AND/OR ITS CONTRACTOR, AGENTS AND/OR EMPLOYEES, ON RAILROAD'S PROPERTY. CONTRACTOR SHALL NOT HAVE OR SEEK RECOURSE AGAINST RAILROAD FOR ANY CLAIM OR CAUSE OF ACTION FOR ALLEGED LOSS OF PROFITS OR REVENUE OR LOSS OF SERVICE OR OTHER CONSEQUENTIAL DAMAGE TO A TELECOMMUNICATION COMPANY USING RAILROAD'S PROPERTY OR A CUSTOMER OR USER OF SERVICES OF THE FIBER OPTIC CABLE ON RAILROAD'S PROPERTY.

Section 6. PERMITS - COMPLIANCE WITH LAWS.

In the prosecution of the Work covered by this agreement, Contractor shall secure any and all necessary permits and shall comply with all applicable federal, state and local laws, regulations and enactments affecting the Work including, without limitation, all applicable Federal Railroad Administration regulations.

Section 7. SAFETY.

A. Safety of personnel, property, rail operations and the public is of paramount importance in the prosecution of any Work on Railroad property performed by Contractor. Contractor shall be responsible for initiating, maintaining and supervising all safety, operations and programs in connection with the Work. Contractor shall, at a minimum, comply with Railroad's then current safety standards located at the below web address ("Railroad's Safety Standards") to ensure uniformity with the safety standards followed by Railroad's own forces. As a part of Contractor's safety responsibilities, Contractor shall notify Railroad if Contractor

determines that any of Railroad's Safety Standards are contrary to good safety practices. Contractor shall furnish copies of Railroad's Safety Standards to each of its employees before they enter Railroad property.

http://www.up.com/cs/groups/public/@uprr/@suppliers/documents/up_pdf_nativedocs/pdf_up_supplier_safety_req.pdf

B. Without limitation of the provisions of paragraph A above, Contractor shall keep the job site free from safety and health hazards and ensure that its employees are competent and adequately trained in all safety and health aspects of the job.

C. Contractor shall have proper first aid supplies available on the job site so that prompt first aid services may be provided to any person injured on the job site. Contractor shall promptly notify Railroad of any U.S. Occupational Safety and Health Administration reportable injuries. Contractor shall have a nondelegable duty to control its employees while they are on the job site or any other property of Railroad, and to be certain they do not use, be under the influence of, or have in their possession any alcoholic beverage, drug or other substance that may inhibit the safe performance of any Work.

D. If and when requested by Railroad, Contractor shall deliver to Railroad a copy of Contractor's safety plan for conducting the Work (the "Safety Plan"). Railroad shall have the right, but not the obligation, to require Contractor to correct any deficiencies in the Safety Plan. The terms of this agreement shall control if there are any inconsistencies between this agreement and the Safety Plan.

Section 8. INDEMNITY.

A. TO THE FULLEST EXTENT ALLOWED BY APPLICABLE LAW, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS RAILROAD, ITS AFFILIATES, AND ITS AND THEIR OFFICERS, AGENTS AND EMPLOYEES (INDIVIDUALLY AN "INDEMNIFIED PARTY" OR COLLECTIVELY "INDEMNIFIED PARTIES") FROM AND AGAINST ANY AND ALL LOSS, DAMAGE, INJURY, LIABILITY, CLAIM, DEMAND, COST OR EXPENSE (INCLUDING, WITHOUT LIMITATION, ATTORNEY'S, CONSULTANT'S AND EXPERT'S FEES, AND COURT COSTS), FINE OR PENALTY (COLLECTIVELY, "LOSS") INCURRED BY ANY PERSON (INCLUDING, WITHOUT LIMITATION, ANY INDEMNIFIED PARTY, CONTRACTOR, OR ANY EMPLOYEE OF CONTRACTOR OR OF ANY INDEMNIFIED PARTY) ARISING OUT OF OR IN ANY MANNER CONNECTED WITH (I) ANY WORK PERFORMED BY CONTRACTOR, OR (II) ANY ACT OR OMISSION OF CONTRACTOR, ITS OFFICERS, AGENTS OR EMPLOYEES, OR (III) ANY BREACH OF THIS AGREEMENT BY CONTRACTOR.

B. THE RIGHT TO INDEMNITY UNDER THIS SECTION 8 SHALL ACCRUE UPON OCCURRENCE OF THE EVENT GIVING RISE TO THE LOSS, AND SHALL APPLY REGARDLESS OF ANY NEGLIGENCE OR STRICT LIABILITY OF ANY INDEMNIFIED PARTY, EXCEPT WHERE THE LOSS IS CAUSED BY THE SOLE ACTIVE NEGLIGENCE OF AN INDEMNIFIED PARTY AS ESTABLISHED BY THE FINAL JUDGMENT OF A COURT OF COMPETENT JURISDICTION. THE SOLE ACTIVE NEGLIGENCE OF ANY INDEMNIFIED PARTY SHALL NOT BAR THE RECOVERY OF ANY OTHER INDEMNIFIED PARTY.

C. CONTRACTOR EXPRESSLY AND SPECIFICALLY ASSUMES POTENTIAL LIABILITY UNDER THIS SECTION 8 FOR CLAIMS OR ACTIONS BROUGHT BY CONTRACTOR'S OWN EMPLOYEES. CONTRACTOR WAIVES ANY IMMUNITY IT MAY HAVE UNDER WORKER'S COMPENSATION OR INDUSTRIAL INSURANCE ACTS TO INDEMNIFY THE INDEMNIFIED PARTIES UNDER THIS SECTION 8. CONTRACTOR ACKNOWLEDGES THAT THIS WAIVER WAS MUTUALLY NEGOTIATED BY THE PARTIES HERETO.

D. NO COURT OR JURY FINDINGS IN ANY EMPLOYEE'S SUIT PURSUANT TO ANY

WORKER'S COMPENSATION ACT OR THE FEDERAL EMPLOYERS' LIABILITY ACT AGAINST A PARTY TO THIS AGREEMENT MAY BE RELIED UPON OR USED BY CONTRACTOR IN ANY ATTEMPT TO ASSERT LIABILITY AGAINST ANY INDEMNIFIED PARTY.

E. THE PROVISIONS OF THIS SECTION 8 SHALL SURVIVE THE COMPLETION OF ANY WORK PERFORMED BY CONTRACTOR OR THE TERMINATION OR EXPIRATION OF THIS AGREEMENT. INNO EVENT SHALL THIS SECTION 8 OR ANY OTHER PROVISION OF THIS AGREEMENT BE DEEMED TO LIMIT ANY LIABILITY CONTRACTOR MAY HAVE TO ANY INDEMNIFIED PARTY BY STATUTE OR UNDER COMMON LAW.

Section 9. RESTORATION OF PROPERTY.

In the event Railroad authorizes Contractor to take down any fence of Railroad or in any manner move or disturb any of the other property of Railroad in connection with the Work to be performed by Contractor, then in that event Contractor shall, as soon as possible and at Contractor's sole expense, restore such fence and other property to the same condition as the same were in before such fence was taken down or such other property was moved or disturbed. Contractor shall remove all of Contractor's tools, equipment, rubbish and other materials from Railroad's property promptly upon completion of the Work, restoring Railroad's property to the same state and condition as when Contractor entered thereon.

Section 10. WAIVER OF DEFAULT.

Waiver by Railroad of any breach or default of any condition, covenant or agreement herein contained to be kept, observed and performed by Contractor shall in no way impair the right of Railroad to avail itself of any remedy for any subsequent breach or default.

Section 11. MODIFICATION - ENTIRE AGREEMENT.

No modification of this agreement shall be effective unless made in writing and signed by Contractor and Railroad. This agreement and the exhibits attached hereto and made a part hereof constitute the entire understanding between Contractor and Railroad and cancel and supersede any prior negotiations, understandings or agreements, whether written or oral, with respect to the Work to be performed by Contractor.

Section 12. ASSIGNMENT - SUBCONTRACTING.

Contractor shall not assign or subcontract this agreement, or any interest therein, without the written consent of the Railroad. Contractor shall be responsible for the acts and omissions of all subcontractors. Before Contractor commences any Work, the Contractor shall, except to the extent prohibited by law; (1) require each of its subcontractors to include the Contractor as "Additional Insured" on the subcontractor's Commercial General Liability policy and Umbrella or Excess policies (if applicable) with respect to all liabilities arising out of the subcontractor's performance of Work on behalf of the Contractor by endorsing these policies with ISO Additional Insured Endorsements CG 20 10, and CG 20 37 (or substitute forms providing equivalent coverage; (2) require each of its subcontractors to endorse their Commercial General Liability Policy with "Contractual Liability Railroads" ISO Form CG 24 17 10 01 (or a substitute form providing equivalent coverage) for the job site; and (3) require each of its subcontractors to endorse their Business Automobile Policy with "Coverage For Certain Operations In Connection With Railroads" ISO Form CA 20 70 10 01 (or a substitute form providing equivalent coverage) for the job site.

EXHIBIT C
TO
CONTRACTOR'S
RIGHT OF ENTRY AGREEMENT

Union Pacific Railroad Company
Insurance Requirements For
Contractor's Right of Entry Agreement

During the entire term of this Agreement and course of the Project, and until all Project Work on Railroad's property has been completed and all equipment and materials have been removed from Railroad's property and Railroad's property has been clean and restored to Railroad's satisfaction, Contractor shall, at its sole cost and expense, procure and maintain the following insurance coverage:

A. Commercial General Liability insurance. Commercial general liability (CGL) with a limit of not less than $5,000,000 each occurrence and an aggregate limit of not less than $10,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage).

The policy must also contain the following endorsement, which must be stated on the certificate of insurance:

- Contractual Liability Railroads ISO form CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.
- Designated Construction Project(s) General Aggregate Limit ISO Form CG 25 03 03 97 (or a substitute form providing equivalent coverage) showing the project on the form schedule.

B. Business Automobile Coverage insurance. Business auto coverage written on ISO form CA 00 01 10 01 (or a substitute form providing equivalent liability coverage) with a combined single limit of not less $5,000,000 for each accident and coverage must include liability arising out of any auto (including owned, hired and non-owned autos).

The policy must contain the following endorsements, which must be stated on the certificate of insurance:

- Coverage For Certain Operations In Connection With Railroads ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Property" as the Designated Job Site.
- Motor Carrier Act Endorsement - Hazardous materials clean up (MCS-90) if required by law.

C. Workers' Compensation and Employers' Liability insurance. Coverage must include but not be limited to:

- Contractor's statutory liability under the workers' compensation laws of the state where the Work is being performed.
- Employers' Liability (Part B) with limits of at least $500,000 each accident, $500,000 disease policy limit $500,000 each employee.

If Contractor is self-insured, evidence of state approval and excess workers compensation coverage must be provided. Coverage must include liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable.

D. Railroad Protective Liability insurance. Contractor must maintain "Railroad Protective Liability" (RPL) insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of Railroad as named insured, with a limit of not less than $2,000,000 per occurrence

and an aggregate of $6,000,000. The definition of "JOB LOCATION" and "WORK" on the declaration page of the policy shall refer to this agreement and shall describe all WORK or OPERATIONS performed under this agreement. Contractor shall provide this agreement to Contractor's insurance agent(s) and/or broker(s) and Contractor shall instruct such agent(s) and/or broker(s) to procure the insurance coverage required by this agreement. A BINDER STATING THE POLICY IS IN PLACE MUST BE SUBMITTED TO RAILROAD BEFORE THE WORK MAY COMMENCE AND UNTIL THE ORIGINAL POLICY IS FORWARDED TO UNION PACIFIC RAILROAD.

E. **Umbrella or Excess** insurance. If Contractor utilizes umbrella or excess policies, these policies must "follow form" and afford no less coverage than the primary policy.

F. **Pollution Liability** insurance. Pollution liability coverage must be included when the scope of the Work as defined in the agreement includes installation, temporary storage, or disposal of any "hazardous" material that is injurious in or upon land, the atmosphere, or any watercourses; or may cause bodily injury at any time.

If required, coverage may be provided in separate policy form or by endorsement to Contractors CGL or RPL. Any form coverage must be equivalent to that provided in ISO form CG 24 15 "Limited Pollution Liability Extension Endorsement" or CG 28 31 "Pollution Exclusion Amendment" with limits of at least $5,000,000 per occurrence and an aggregate limit of $10,000,000.

If the scope of Work as defined in this agreement includes the disposal of any hazardous or non-hazardous materials from the job site, Contractor must furnish to Railroad evidence of pollution legal liability insurance maintained by the disposal site operator for losses arising from the insured facility accepting the materials, with coverage in minimum amounts of $1,000,000 per loss, and an annual aggregate of $2,000,000.

Other Requirements

G. All policy(ies) required above (except business automobile, worker's compensation and employers liability) must include Railroad as "Additional Insured" using ISO Additional Insured Endorsements CG 20 10, and CG 20 37 (or substitute forms providing equivalent coverage). The coverage provided to Railroad as additional insured shall not be limited by Contractor's liability under the indemnity provisions of this agreement. BOTH CONTRACTOR AND RAILROAD EXPECT THAT UNION PACIFIC RAILROAD COMPANY WILL BE PROVIDED WITH THE BROADEST POSSIBLE COVERAGE AVAILABLE BY OPERATION OF LAW UNDER ISO ADDITIONAL INSURED FORMS CG 20 10 AND CG 20 37.

H. Punitive damages exclusion, if any, must be deleted (and the deletion indicated on the certificate of insurance), unless (a) insurance coverage may not lawfully be obtained for any punitive damages that may arise under this agreement, or (b) all punitive damages are prohibited by all states in which this agreement will be performed.

I. Contractor waives all rights of recovery, and its insurers also waive all rights of subrogation of damages against Railroad and its agents, officers, directors and employees for damages covered by the workers compensation and employers liability or commercial umbrella or excess liability obtained by Contractor required in this agreement where prohibited by law. This waiver must be stated on the certificate of insurance.

J. Prior to commencing the Work, Contractor shall furnish Railroad with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements in this agreement.

K. All insurance policies must be written by a reputable insurance company acceptable to Railroad or with a current Best's Insurance Guide Rating of A- and Class VII or better, and authorized to do business in the state where the Work is being performed.

L. The fact that insurance is obtained by Contractor or by Railroad on behalf of Contractor will not be deemed to release or diminish the liability of Contractor, including, without limitation, liability under the indemnity provisions of this agreement. Damages recoverable by Railroad from Contractor or any third party will not be limited by the amount of the required insurance coverage.

10. General – Union Pacific Railroad Company.

Perform the work under this construction contract for Project 1100-20-70 Zoo Freeway, IH 41 West Burleigh Street to West Capitol Drive, Milwaukee County, Wisconsin 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, 2024 Edition, as published by the department, and these special provisions.

Perform all Union Pacific Railroad Company (UPRR) work according to the following references, (adopted by the Union Pacific Engineering Department, latest edition, and in addition to the Special Provisions, Plans and Standard Specifications):

1. UPRR Standard Plans
2. UPRR General Conditions and Specifications
3. UPRR Guidelines
4. AREMA Manual for Railway Engineering

If there is a discrepancy or conflict between the referenced specifications and the special provisions or standard specifications regarding UPRR work, the stricter requirement between the two specifications governs.

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 (20200629)

11. General Information, Definitions, and Terms.

Supplement standard spec 101.2 with the following:

UPRR Union Pacific Railroad Company

Modify standard spec 101.3 with the following:

Roadbed The graded portion of a highway or track section, within top slopes and side slopes, prepared as a foundation for the pavement structure and shoulders, or track section.

Roadway The portion of a highway, or railway, within the limits of construction. A divided highway has 2 or more roadways.

Subgrade The top surface of a roadbed upon which the pavement structure and shoulders, or track section, are constructed.

Supplement standard spec 101.3 with the following:

Ballast The layer or layers of specified or selected material of designed thickness placed on subballast to support ties, rail and other track material.

Subballast The layer or layers of specified or selected material of designed thickness placed on a subgrade to support ballast, ties, rail and other track material.

Railway A private way for the purpose of train operations, including the entire area within the private right-of-way.

Track Section The combination of subballast, ballast, ties, rails and other track material placed on a subgrade to support the railroad load and distribute it to the roadbed.

UPRR Engineer The UPRR or the UPRR's authorized representative limited by the particular duties assigned to the representative.

12. Union Pacific Railroad Company Requirements.

A General

In addition to requirements of the standard specifications and other articles within these special provisions, comply with the following requirements of Union Pacific Railroad Company (UPRR). Allow a minimum of four weeks for UPRR review of all submittals and each required resubmittal.

B Request for Information / Clarification

All requests for information (RFI) involving work within UPRR right-of-way shall be according to the procedures listed elsewhere in the special provisions. Submit all RFI's to the engineer one week before the submittal to UPRR. Allow the minimum review time listed in subsection A above for UPRR's review and each required resubmittal after receipt by the UPRR engineer from the engineer. Do not proceed with information or clarifications without approval of both the engineer and the UPRR engineer.

C Plans / Specifications

UPRR has approved all UPRR-related work in the contract documents. Submit any UPRR-related changes and clarifications of the contract documents to the engineer one week before the submittal to UPRR. Allow the minimum review time listed in subsection A above for UPRR's review and each required resubmittal after receipt by the UPRR engineer from the engineer. Do not proceed with revisions without approval of both the engineer and the UPRR engineer.

D Construction Submittals

Electronically submit all required construction submittals via email as pdf files along with any review comments to the engineer. When submitting by email, subject title shall be consistent for a specific submittal throughout the UPRR approval process. For example:

IH 41 over UPRR Milwaukee Subdivision MP 93.80 (_____)

End subject title with type of submittal. For example: (shoring plans).

All design submittals shall be stamped and signed by a professional engineer registered in the State of Wisconsin. A sufficient submittal review does not relieve the contractor of responsibility and liability.

Submit all construction submittals to the engineer one week before the submittal to UPRR. Allow the minimum review time listed in subsection A above for UPRR's review and each required resubmittal after receipt by the UPRR engineer from the engineer. Do not proceed with work described in the submittals without approval of both the engineer and the UPRR engineer.

The engineer and the UPRR engineer may review the submittals. If the UPRR engineer or the engineer finds a submittal insufficient, make all required changes and resubmit it to both the UPRR engineer and the engineer. A sufficient submittal review does not relieve the contractor of responsibility and liability of complying with the plans, specifications and the special provisions and for the structural integrity and proper functioning of the item that is the subject of the submittal.

Item	Description of Submittal Item	Notes
1	Shoring Design and Details	
2	Falsework Design and Details	
3	Erosion Control	Temporary and permanent
4	Erection Diagrams and Sequence	
5	Demolition Diagram and Sequence	
6	Construction Phasing Plan	
7	Project Close-Out Documents	
8	Other project-specific information as requested by UPRR	

Whenever work may affect the operations or safety of trains, submit to the UPRR engineer and copy the engineer for review. Review by UPRR shall not relieve the contractor from liability.

E Infringement On Minimum Clearances

Contractor will submit requests for infringement upon the minimum horizontal or vertical clearance requirements, as stated in “Railroad Insurance and Coordination – Union Pacific Railroad” article in these special provisions. The contractor will submit the requests to the UPRR engineer and copy the engineer. Do not infringe upon the minimum clearances unless they are first approved in writing by the UPRR engineer.

F Approval of Details

Once approval is obtained by the UPRR engineer, the contractor shall provide written approval to the engineer before undertaking such work.

G Site Inspections By UPRR

UPRR may make site inspections at any time. Provide the UPRR engineer a schedule of anticipated dates for the following activities and copy the engineer.

Pre-construction conference

Shoring

Erection of superstructure

Completion of the bridge structure

Demolition

Update the schedule monthly, or more frequently if necessary, so that site visits may be scheduled.

H Construction Excavations and Demolition

Construction excavations shall meet OSHA and American Railway Engineering and Maintenance-of-Way Association (AREMA) requirements and the UPRR “Guidelines for Temporary Shoring” (GTS). The GTS is available for review from the Southeast Region’s Railroad Coordinator at the department’s Southeast Regional Office located at 141 NW Barstow Street, Waukesha, Wisconsin 53188 or at http://www.up.com/customers/ind-dev/operations/specs/

13. Hauling Restrictions.

Replace standard spec 107.2 with the following:

(1) Present to the department, five business days before proposed hauling, a proposed haul route plan detailing haul routes that are not part of the state trunk highway system. Include the months, days of the week, time of day, number of trucks, types of trucks and maximum loads of trucks anticipated to accomplish the project work in the haul route submittal.

(2) The department will review the submittal and either approve or provide a letter with comments and proposed revisions to the contractor within five business days of its receipt. If approved, the department will subsequently survey the existing condition of that haul route to establish a baseline for assessing damage that the contractor's hauling operations might cause.

(3) At all times, conduct operations in a manner that will cause a minimum of disruption to traffic on existing roadways.

sef-107-015 (20170310)

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

The department has received written verification of coverage under the Section 404 Transportation Regional General Permit from the U.S. Army Corps of Engineers. Comply with the requirements of the permit in addition to requirements of the special provisions.

A copy of the permit is available from the regional office by contacting Clayton Smith at (262) 548-6428.

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 U.S. Army Corps of Engineers Section 404 permit modification is required. If a Section 404 permit modification is necessary, obtain the permit modification 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 permit modification. The contractor must be aware that the U.S. Army Corps of Engineers may not grant the permit modification request.

stp-107-054 (20230629)

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

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 Alex Grasse at (414) 750-1404. Post the permit certificate in a conspicuous place at the construction site.

stp-107-056 (20230629)

16. 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 (>104º 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)

17. 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)

18. Environmental Protection for Culvert Work.

Supplement standard spec 107.18 with the following:

There are numerous existing culvert pipes requiring cleaning and/or work on the endwalls that are within or adjacent to wetland areas. Limit wetland disturbance as much as possible unless some ditch cleaning is required. Equipment used in this area shall exert low ground pressure (no wheeled vehicles) or be done by hand. Use silt fence to protect adjacent wetland areas from siltation and disturbance.

The contractor will be allowed to isolate the work area with bypass pumping for one working day to clean each culvert.

Protect wetlands against erosion and sedimentation during the construction phase of the project.

Do not place any fills in waterways or wetlands.

Properly dispose of all sediment removed from the cleaning process at a site that is approved by the engineer.

Divert flow in any drainage ditches that have twin culverts. Use rock bags to isolate the flow into the second culvert while cleaning the first. If site dewatering is required, pump the sediment-laden water into an adequately sized sediment basin prior to discharging it to a ditch or waterway.

Utilize all best management practices for erosion control for this work as directed by the engineer.

Restore any disturbed area around the work area with specified landscaping as directed by the engineer.

Best Management Practices

Each culvert location should be classified based on the required level of environmental protection. As par to the erosion control bid items, the contractor shall include protection as described below. BMP’s shown on the erosion control plan sheets are a minimum level of protection. Additional guidance is below:

Type 1: For culverts that have water running or standing in them during dry periods

- Provide a rock bag dam at both the upstream and downstream end of the culvert.
- Place silt fence or other erosion control BMP’s to protect undisturbed areas.
- Dewater work area.
- Clean the culvert, and ditch where applicable, of sediment. Limit cleaning operation to a single working day.
- Complete any endwall and/or pipe repairs.
- Reshape and restore all disturbed areas adjacent to the culvert with final restoration of topsoil, seed, and erosion mat within two calendar days.

Type 2: For culverts that are next to wetland areas without standing water or water in the culvert

- Place silt fence or other erosion control BMP's to protect undisturbed area.
- Clean the culvert, and ditch where applicable, of sediment. Limit cleaning operation to a single working day.
- Complete any endwall and/or pipe repairs.
- Reshape and restore all disturbed areas adjacent to the culvert with final restoration of topsoil, seed, and erosion mat within two calendar days.

Type 3: For culverts not near water or wetlands

- Clean the culvert, and ditch where applicable, of sediment. Limit cleaning operation to a single working day.
- Complete any endwall and/or pipe repairs.
- Reshape and restore all disturbed areas adjacent to the culvert with final restoration of topsoil, seed, and erosion mat within three calendar days.

Dewatering

Perform all endwall repair work in a fully dewatered ditch or waterway.

In instances where topography or space does not allow for passive diversion of water, use pumps and pipes to divert the water. The contractor shall provide the pumps required for flow conditions as well as have available additional pumps in the event the flow increases.

All pumps shall be supervised during hours of pumping.

Provide pumps that are in good operating order and free of leaks. Pumps that are leaking fuel, lubricants or other material shall be removed immediately from the work area and then repaired or replaced as necessary.

During the dewatering operation, provide adequate protection from erosion at the discharge area. All materials placed to protect the discharge outfalls are temporary in nature and shall be removed from the project area upon completion of the dewatering process.

Dewatering is incidental to other work items.

19. Erosion Control.

Add the following to standard spec 107.20 as paragraphs nine through fifteen:

(9) Erosion control best management practices (BMP's) the plans show are at suggested locations. The actual locations shall be determined by the contractor's ECIP and by the engineer. Include each dewatering (mechanical pumping) operation in the ECIP submittal. The ECIP shall supplement information the plans show and not reproduce it. The ECIP shall identify how to implement the project's erosion control plan. ECIP shall demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-application of topsoil to minimize the exposure to possible erosion.

(10) Provide the ECIP 14 days before the pre-construction conference. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison (*Ryan Pappas, (414) 750-7495, Ryan.Pappas@Wisconsin.gov*). Do not implement the ECIP until department approval and perform all work conforming to the approved ECIP.

(11) Maintain Erosion Control BMP's until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

(12) Stockpile excess materials or spoils on upland areas away from wetlands, floodplains, and waterways. Install perimeter silt fence protection around stockpiles within a timeframe acceptable to the engineer. If stockpiled materials will be left for more than 14 days, install temporary seed and mulch or other temporary erosion control measures the engineer orders.

(13) Re-apply topsoil on graded areas, as designated by the engineer, within a timeframe acceptable to the engineer after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 days after placement of topsoil. If graded areas are left not completed and exposed for more than 14 days, seed those areas with temporary seed and mulch.

(14) Do not allow excavation for; structures, utilities, grading, maintaining drainage that requires dewatering (mechanical pumping) of water containing sediments (sand, silt, and clay particles) to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Before each dewatering operation, submit to the department a separate ECIP amendment describing in words and pictorial format an appropriate BMP for sediment removal, conforming to WisDNR Storm Water Construction Technical Standard, Code 1061, Dewatering. Include reasoning, location, and schedule duration proposed for each operation. Per Code 1061, include all selection criteria: site assessment, dewatering practice selection, calculations, plans, specifications, operations, maintenance, and location of proposed treated water discharge. Provide a stabilized discharge area. If directing discharge towards or into an inlet structure, provide additional inlet protection for back-up protection.

sef-107-010 (20180104)

The project ECIP should detail how erosion control devices shown in the plan set will be implemented for the worksite. Additional devices may be needed based on sequence of operations and field conditions. A ‘staged’ ECIP may be required for this project, as new areas are disturbed. Each new ‘stage’ of the ECIP needs to be submitted to the project staff and the WDNR liaison for review as an amendment to the ECIP with a standard 14-day review period. Work should not commence in new areas until the project staff and WDNR has reviewed and concurred with the corresponding ECIP amendment.

All disturbed areas should be adequately protected and restored as soon as feasible. Any disturbed area that will not be ‘re-worked’ for 14 days or more should be temporary seeded and mulched to prevent offsite erosion. The project team may identify ‘sensitive’ areas in the field that require additional temporary stabilization to protect resources from being contaminated by sediment-laden water discharging from the work site. Any ‘release’ of sediment-laden water from the work site that enters a wetland or waterway should be reported to the WDNR liaison within 24 hours.

If dewatering is required for any reason, the water must be pumped into a properly selected and sized dewatering basin before the clean/filtered water is allowed to enter any waterway or wetland. The basin must remove suspended solids and contaminants to the maximum extent practicable. A properly designed and constructed dewatering basin must take into consideration maximum pumping volume (gpm or cfs) and the sedimentation rate for soils to be encountered. Do not house any dewatering technique in a wetland or floodplain.

The contractor should restrict the removal of vegetative cover and exposure of bare ground to the minimum amounts necessary to complete construction. Restoration of disturbed soils should take place as soon as conditions permit. If sufficient vegetative cover will not be achieved because of late season construction, the site must be properly winterized. A plan for ‘over-wintering’ the project or a specific project area should be compiled and submitted to the project staff and WDNR for review in an amendment to the ECIP.

All temporary stockpiles must be in an upland location and protected with erosion control measures (e.g., silt fence, rock filter-bag berm, etc.). Proposed stockpile locations should be included in the ECIP. Do not stockpile fill or other construction materials in or adjacent to wetlands, waterways or floodplain.

The DOT Select Site process must be adhered to for clean fill or any other material that leaves the work site. The project staff and the WDNR liaison will review all proposed select sites and a site visit may be required. Filling of wetlands, waterways or floodplain is not allowed under the select site process, unless the site owner has proof of required local/state/federal permits. No new impermeable surfaces can be left at a select site (including gravel roads or pads), unless the site owner attains required permits. Contaminated materials leaving the site need to adhere to the Hazardous Material Management Plan.

Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in the construction area in a manner that would allow them to enter a wetland or waterbody as a result of spillage, natural runoff, or flooding. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the State Duty Officer at 1 (800) 943-0003.

Construction of structure over navigable waterways shall be completed as quickly as possible in order to minimize disruption. Construction shall minimize the removal of shoreline vegetation below the ordinary high water mark (OHWM), unless otherwise directed by the WDNR Transportation Liaison. Construction equipment should not operate on the bed of the stream or below the OHWM, except for that which is necessary for the placement of the structure. The contractor must provide a means of separating the live flow channel of the waterway from disturbed areas (cofferdam, turbidity barrier, etc.). Any plan for diverting the flow of a navigable waterway (listed under Fish Spawning provision) needs to be submitted, reviewed and approved by the project staff and the WDNR liaison.

When performing concrete or asphalt sawcutting operations, the slurry shall be squeegeed off to the shoulder gravel or shoveled into the gravel behind curbs and not allowed into storm sewers, ditches, waterways or wetlands.

20. Environmental Protection – Waste.

Conduct construction activities in an environmentally sound manner, including the proper disposal of all demolition material that cannot be recycled.

The excavation management plan for this project has been designed to minimize the off-site disposal of impacted material. Follow the requirements for the off-site management of petroleum-and metals-contaminated soil (bioremediation at a landfill) and reuse of foundry sand and low-level petroleum-contaminated soil as indicated in these special provisions. If subsurface contamination or other signs of non-exempt (NR 500.08) solid waste including buried containers, industrial fill, stained soils, noxious odors, etc., are unexpectedly encountered elsewhere on the project during excavation, terminate excavation in the area and notify the engineer immediately. Work with the department's environmental consultant to properly manage the waste following the WisDOT-WDNR materials management options as indicated in the table below. Contact Andrew Malsom (WisDOT) at 262-548-6705 or Andrew.Malsom@dot.wi.gov to arrange for environmental consultant coordination. The environmental consultant will perform waste characterization and coordinate with the WDNR for an appropriate handling and disposal.

Management of Material Excavated During Highway Construction		
Classification	**Characterization of Material**	**Material Management**
1. Common Excavation (NR 500.08(2) Unregulated or Exempt Material)	– Native soil – Fill soils that have no obvious visual or olfactory contamination and may not have been analyzed for contaminants. – Clean unpainted or untreated wood, brick, concrete, cured asphalt, and trace amounts of glass.	Contractor-selected sites approved through Erosion Control Implementation Plan (ECIP) review process, or on-site reuse
2. Special Excavation (NR 500.08(4) Solid Waste Low Hazard Exemption)	– Soil with low levels of petroleum contamination or contaminant metals within the site fill plan criteria. – Trace amounts (<25% volume of the excavation equipment's bucket load) of foundry sand, cinders, and fly ash.	WisDOT selected site or on-site reuse with WDNR concurrence. Sites must meet the location criteria of 504.04 (3) (c) and (4) (a) to (f). Fill plans are also approved through ECIP review process.
3. Contaminated Soil and Fill Material	– Lead painted or treated wood – Petroleum contaminated soil – Significant amounts (>25% volume of the excavation equipment's bucket load) of foundry sand, cinders, or fly ash.	Contaminated material disposed at a WDNR-licensed solid waste disposal facility. Petroleum contaminated material shall be treated at a bioremediation facility (biopile) prior to disposal at the landfill. Direct disposal of contaminated material at landfills without such pre-treatment must be pre-authorized by the WisDOT.
4. Asbestos-containing Waste	Asbestos-containing material	Landfill at a WDNR–licensed solid waste landfill with approval to accept asbestos-containing material.
5. Hazardous Waste	RCRA Subtitle C (NR 600) contaminated media (hazardous waste)	Disposed or treatment under State's hazardous waste disposal contract with Veolia. Significant quantities should be evaluated for potential treatment to render non-hazardous to reduce disposal costs.
6. Potentially contaminated material	Potentially contaminated material with unusual visual, olfactory, or other characteristics	Temporary stockpile with appropriate environmental controls constructed per NR 718.05. Temporary stockpiling at solid waste landfill may be alternative with WDNR & Landfill's approvals.

21. Notice to Contractor – Railroad Work Plan Example.

The department has an example railroad work plan available for review. This is for informational purposes only. Contact Clayton Smith at (262) 548-6428 to review this information.

22. Notice to Contractor – Milwaukee County Parks Permit.

The department has coordinated a draft permit with Milwaukee County Parks to occupy Milwaukee County Parks land outside of the existing roadway right-of-way at specified locations and for closing the Oak Hill Mountain Bike Trail in order to perform construction operations. Prior to preparing bids, the contractor should contact the department to obtain a copy of the draft permit to obtain permit access locations, permit terms and conditions, and fees associated with the permit. The contractor shall be responsible for executing the permit with Milwaukee County Parks by signing the permit and paying the permit fee as specified in the draft permit. Information on the permit can be obtained from the regional office by contacting Clayton Smith at (262) 548-6428. The contractor shall be responsible for returning the signed permit and fee to Milwaukee County Parks. The cost of the permit fee is incidental to construction. The contractor must obtain this permit in order to perform construction operations for this project.

23. Notice to Contractor – City of Wauwatosa Street Occupancy Permit.

Coordinate access to the noise barrier (N-40-88) along N 117th Street with the City of Wauwatosa. A street occupancy permit for staging purposes can be applied for at the website link below.

https://services.wauwatosa.net/EnerGov_Prod/SelfService#/home

24. Notice to Contractor – Airport Operating Restrictions.

Fill out the FAA Notice Criteria tool for all permanent structure (bridge, light pole, etc.) or equipment (crane, etc.) used during construction.

https://oeaaa.faa.gov/oeaaa/external/portal.jsp

Determinations have been made for permanent structures. Contact Clayton Smith, (262) 548-6428, clayton.smith@dot.wi.gov to receive a copy of the determination letters.

If required by the Notice Criteria tool, and for all crane or construction equipment higher than 200 feet above the ground, submit completed form 7460-1 (Notice of Proposed Construction or Alteration) to The Federal Aviation Administration (FAA) at least 45 days before starting construction.

Contact Levi Eastlick, (608) 267-5018, WisBOA airspace/tall structure manager for assistance submitting forms.

sef-107-020 (20171004)

25. Notice to Contractor – Safety.

All workers shall wear OSHA and ANSI compliant safety head protection, safety glasses, safety-toe protective footwear, and an ANSI 107-2015 Type R, Class 2 safety vest and at all times while within the project footprint. ANSI 107-2015 Type R, Class E safety pants will be required from dusk until dawn while in the project footprint.

The contractor and respective subcontractors shall provide a copy of their current Company Safety Plans to the department at the preconstruction meeting. All workers shall comply with the Safety Plans of their employer. The department will not issue a notice to proceed until all safety plans have been submitted.

Noncompliance with this contract provision may result in removal of contractor personnel from the project or suspension of work according to Wisconsin Department of Transportation standard spec 108.6 applicable under the contract.

26. Notice to Contractor – Milwaukee County Transit System.

The Milwaukee County Transit System (MCTS) operates the following bus routes within and/or directly adjacent to the construction limits: routes 22 (Center Street), 28 (108th Street), RedLine (Capitol Drive), 11 (Hampton Avenue), 28 (108th Street), 57 (Walnut-Appleton), 58 (Villard Avenue), and 63 (Silver Spring Drive).

Impacts to MCTS Routing

Invite MCTS to all coordination meetings between the contractor, the department, local officials and business stakeholders to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Notify MCTS at least 10 business days prior to beginning project work to provide advance notice of potential service impacts.

Impacts to MCTS Signs and Posts

Notify MCTS of work impacting MCTS signs and posts in advance 5 or more business days. MCTS signs include “Bus Stop” and turn disc signs. MCTS signs are mounted on MCTS posts; and on assets owned by others including streetlights, traffic regulators, crosswalk and street signposts. MCTS shall be responsible for MCTS sign and post removal and installation, with the contractor granting access to MCTS personnel to perform such work. Signs stating “No Parking Bus Stop” are the under the ownership and responsibility of City of Milwaukee.

Impacts to Bus Shelters

Contractor work may require bus shelter(s) to be temporarily removed. MCTS will be responsible for the removal and reinstallation of bus shelters, with the contractor granting access to MCTS personnel for the purposes of reinstallation before new pavement opens to vehicular traffic. Notify MCTS in advance ten (10) business days for each site-specific bus shelter location.

Non-detour Service Suspension at MCTS Bus Stops and Temporary Bus Stops

Occasions may arise when work requires neither a detour nor the physical alteration of MCTS bus stop assets, but (for passenger safety) those occasions involved require MCTS to temporarily suspend service at a bus stop location. Notify MCTS in advance five (5) business days of the site-specific occasion, and MCTS will sign appropriately to instruct passengers to board at a temporary bus stop. Notify MCTS upon completion of work. MCTS will resume service to any suspended bus stop locations when it is safe to do so.

Temporary Bus Stops

MCTS will designate temporary bus stop boarding locations using MCTS temporary signs. Temporary bus stops will be in existing right-of-way at ADA-accessible locations outside the project’s construction zone. MCTS is not requesting this project to provide temporary boarding pads.

MCTS contacts:

Dan Adams (primarily construction planning and design)
Milwaukee County Transit System
1942 N. 17th St.
Phone: (414) 937-3273
dadams@mcts.org

Armond Sensabaugh (primarily staging and detours)
Milwaukee County Transit System
1942 N. 17th St.
Milwaukee, WI 53205
Phone: (414) 343-1728
asensabaugh@mcts.org

David Locher
Milwaukee County Transit System
1942 N. 17th St.
Milwaukee, WI 53205
Phone: (414) 343-1727
dlocher@mcts.org

27. Notice to Contractor – Environmental Sampling of Import Soil.

Material testing is required for any permanent fill incorporated into the Union Pacific right-of-way that has composition with an element of fine material, including but not limited to the list provided below:

205.0100 Excavation Common (CY)
(Any associated fill material excavated from outside Union Pacific Railroad right-of-way)

210.1500 Backfill Structure Type A (CY)

All imported soil placed within UPRR right-of-way must be proven through analytical testing that it is free from contamination. Coordinate with the environmental consultant to collect import soil samples complying with the requirements in "Soil Import Specifications," Adopted by the Union Pacific Engineering Department, March 1, 2016. If there is a discrepancy or conflict between the referenced specification and WDNR requirements, the stricter requirement between the two governs.

The environmental consultant for this project is:

Consultant: TRC Environmental Corporation

Address: 150 N. Patrick Blvd., Suite 180, Brookfield, WI 53045

Contact: Bryan Bergmann

Phone: (262) 901-2126 office / (262) 227-9210 cell

Fax: (262) 879-1220

E-mail: bbergmann@trccompanies.com

The department's environmental contact for this project is:

Name: Andrew Malsom

Address: 141 NW Barstow St., Waukesha, WI 53187

Phone: (262) 548-6705

E-mail: Andrew.Malsom@dot.wi.gov

The role of the environmental consultant will be limited to:

- Collecting one representative soil sample for every 5,000 cubic yards (in place), or fraction thereof, of import soil. If import soil will be derived from more than one source or location, import soil qualifications must be attained from each source according to the sampling frequency.
- Document approximate geographic coordinates (latitude/longitude) of the import soil sample location(s).
- Coordinating lab testing of import soil.
- Provide laboratory results and geographic coordinates to the department and contractor. Contractor shall provide laboratory results and geographic coordinates to UPRR.

To qualify a given volume of soil for use as import soil, a copy of the associated laboratory report must be sent to UPRR for review and approval.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant.

At the preconstruction conference, identify the import soil site(s). Notify the environmental consultant at least three calendar days prior to when soil samples can be collected at the import soil site(s).

The environmental consultant will coordinate analytical testing of import soil. Fifteen business days should be allowed for the environmental consultant to collect soil samples and for the laboratory to conduct environmental testing and issue results at each import soil site.

Import soil shall not be placed in the UPRR right-of-way without prior approval from UPRR. After lab data has been provided to the contractor for submittal to UPRR, the environmental consultant shall not be responsible for any delays related to UPRR review and approval of import soil for placement within the UPRR right-of-way.

Costs associated with assisting the environmental consultant with environmental sampling of import soil are considered incidental to the project.

28. Notice to Contractor, Asbestos Containing Materials on Structure.

Jennifer Reed, License Number AII-155710, inspected Structure B-40-360 for asbestos on September 14, 2015. Regulated Asbestos Containing Material (RACM) was found on this structure in the following locations and quantities: Gaskets under the railing attachment plate, 8.3 sq feet of non-friable asbestos.

A copy of the inspection report is available from Andrew Malsom, (262) 548-6705, Andrew.malsom@dot.wi.gov. Locations of asbestos containing material are noted on the plan set. Do not disturb any asbestos containing material. Should asbestos containing material be disturbed, 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.

stp-107-120 (20220628)

29. Notice to Contractor, Verification of Asbestos Inspection, No Asbestos Found.

John Roelke, License Number AII-119523, inspected Structure B-40-216, B-40-217, B-40-333, B-40-334, B-40-356, B-40-357, B-40-358, B-40-359, B-40-363, and B-40-364 for asbestos on October 1, 2014. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from Andrew Malsom, (262) 548-6705, Andrew.malsom@dot.wi.gov.

stp-107-127 (20220628)

30. Intelligent Transportation Systems (ITS) – Control of Materials.

Standard spec 106.2 – Supply Source and Quality

Add the following to standard spec 106.2:

The department will furnish a portion of equipment to be installed by the contractor. This department-furnished equipment includes the following:

Department-Furnished Items
Microwave Vehicle Detectors
6-Count Fiber Optic Cable
Fiber Optic Termination Panels
CCTV Cameras
CCTV Camera Poles
Microwave Vehicle Detectors
Ethernet Switches
Pole-Mounted Cabinets
Dynamic Message Sign
Fiber Optic Splice Enclosures

Pick-up small department-furnished equipment, such as communications devices, cameras, and controllers, from the department's Traffic Management Center (TMC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the Statewide ITS Engineer, Dean Beekman at (414) 227-2154 to coordinate pick-up of equipment.

Pick up cabinets and solar power systems, including batteries, at the department's TMC equipment storage facility at 633 W. Wisconsin Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact Dean Beekman to coordinate pick-up of equipment.

Large department-furnished equipment, such as camera poles and dynamic message signs will be delivered by the supplier to a contractor-controlled site identified by the contractor. Delivery will not necessarily be in a "just in time" manner. Store the equipment until field installation.

Within two weeks of Notice to Proceed, contact the engineer and Dean Beekman. Provide the address and contact information for the contractor-controlled location for delivery and the desired delivery schedule for the large state-furnished materials.

Transportation of the equipment between the electric shop and the field or interim locations are the responsibility of the contractor.

Standard spec 106.3 – Approval of Materials

Add the following to standard spec 106.3:

Design/Shop Drawings

Before the purchase and/or fabrication of any of the components listed herein, and for any non-catalog item shown on the Material and Equipment List specified above, and no more than 30 days after notice to proceed, submit five copies of design drawings and shop drawings, as required, to the department for review. The items and the drawings that represent them shall meet the requirements of the standard specifications.

Design drawing submissions shall consist of signed and certified designs, design drawings, calculations, and material specifications for required items.

Shop drawings will be required for, but not limited to the following:

1. Mounting assemblies for the vehicle speed and classification sensors, including their attachment to the structure.
2. Mounting LED warning signs to the sign structure.
3. Mounting detail for dynamic message signs.
4. Any contractor-designed structure or foundation.

The department will complete its review of the material within 30 days from the date of receipt of the submission, unless otherwise specified. The department will advise the contractor, in writing, as to the acceptability of the material submitted. The department may determine that if no exceptions were taken for the item, it is approved, and no further action is required by the contractor; or the item may be partially or totally rejected, in which case modify and/or amend the submittal as required by the department and resubmit the item within 14 days. At this time, the review and approval cycle described above will begin again.

stp-670-005 (20230629)

31. Intelligent Transportation Systems - General Requirements.

A Description

A.1 General

This special provision describes providing elements for an Intelligent Transportation System (ITS) in or along the existing roadway as the plans show.

Unusual aspects of this project include:

1. The project includes working on cables and equipment that are carrying data between roadside equipment and the department's Traffic Management Center (TMC). Interruption of this service is not expected to perform this work. If an interruption is determined necessary, it must be done on a weekend, and must be done in a way that minimizes communication outages for the existing equipment. Notify the department's TMC at least 48 hours in advance of the planned interruption.
2. The department will furnish some of the equipment to be installed. Make a reasonable effort to discover defects in that equipment before installing it.

A.2 Surge Protection

Equip every ungrounded conductor wire entering or leaving any equipment cabinet with a surge protector. For purposes of this section, multiple cabinets on a single pole or foundation are considered a single cabinet.

B Materials

B.1 General

Only furnish equipment and component parts for this work that are new and have high quality workmanship. All controls, indicators, and connectors shall be clearly and permanently labeled in a manner approved by the engineer. All equipment of each type shall be identical.

All electrical equipment shall conform to the standards and requirements of the Wisconsin Electrical Code, the National Electrical Manufacturers Association (NEMA), National Electric Safety Council (NESC), Underwriter's Laboratory Inc. (UL) or the Electronic Industries Association (EIA), when applicable. All materials and workmanship shall conform to the requirements of the National Electrical Code (NEC), Rural Electrification Administration (REA), Standards of the American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), requirements of the plans these special provisions, the standard specifications, and to any other codes, standards, or ordinances that may apply. All system wiring, conduit, grounding hardware and circuit breakers shall be in conformance with the National Electrical Code. Whenever reference is made to any of the standards mentioned, the reference shall be considered to mean the code, ordinance, or standard that is in effect at the time of the bid advertisement.

B.2 Outdoor Equipment

All conductive connectors, pins (except pins connected by soldering), and socket contacts shall be gold plated. Acrylic conformal coating shall protect each circuit board side that has conductive traces. Except for integrated circuits containing custom firmware, all components shall be soldered to the printed circuit board.

To prevent galvanic corrosion, all connections between dissimilar metals shall incorporate a means of keeping moisture out of the connection. Where the connection need not conduct electricity, interpose a non-absorbing, inert material or washer between the dissimilar metals. Use nonconductive liners and washers to insulate fasteners from dissimilar metals. Where the connection must conduct electricity, use a conductive sealant between the dissimilar metals. Alternatively, use an insulating gasket and a bond wire connecting the two metal parts.

B.3 Custom Equipment

Equipment that is not part of the manufacturer's standard product line, or that is made or modified specifically for this project, shall conform to the following requirements:

Where practical, electronics shall be modular plug-in assemblies to facilitate maintenance. Such assemblies shall be keyed to prevent incorrect insertion of modules into sockets.

All components shall be available from multiple manufacturers as part of the manufacturers' standard product lines. All must be clearly labeled with the value, part number, tolerance, or other information sufficient to enable a technician to order an exact replacement part.

Lamps used for indicator purposes shall be light-emitting diodes.

The printed circuit boards shall be composed of "two-ounce" copper on 1/16 inch thick fiberglass epoxy or equivalent type construction. Holes that carry electrical connections from one side of the boards to the other shall be completely plated through. Multilayer printed circuit boards shall not be used. The name or reference number used for the board in the drawings and maintenance manuals supplied to the department shall be permanently affixed to each board.

All components shall be mounted so that the identifying markings are visible without moving or removing any part, if practical.

B.4 Environmental Conditions

Equipment shall continue to operate as specified under the following ranges of environmental conditions, except as noted in the specifications for individual pieces of equipment.

1. **Vibration and Shock:** Vehicle speed and classification sensors and any other equipment mounted atop poles or on structures shall not be impaired by the continuous vibration caused by winds (up to 90 mph with a 30 percent gust factor) and traffic.
2. **Duty Cycle:** Continuous
3. **Electromagnetic Radiation:** The equipment shall not be impaired by ambient electrical or magnetic fields, such as those caused by power lines, transformers, and motors. The equipment shall not radiate signals that adversely affect other equipment.

4. **Electrical Power:**
    4.1. **Operating power:** The equipment shall operate on 120-volts, 60-Hz, single-phase unless otherwise specified. It shall conform to its specified performance requirements when the input voltage varies from 89 to 135 volts and the frequency varies +3 Hz.
    4.2. **High frequency interference:** The equipment operation shall be unaffected by power supply voltage spikes of up to 150 volts in amplitude and 10 microseconds duration.
    4.3. **Line voltage transients:** The equipment operation shall be unaffected by voltage transients of plus or minus 20 percent of nominal line voltage for a maximum duration of 50 milliseconds. Equipment in the field shall meet the power service transient requirements of NEMA Standard TS-2 when connected to the surge protectors in the cabinets.
5. **Temperature and Humidity:**
    5.1. **Field equipment:** Equipment in the field shall meet the temperature and humidity requirements of NEMA Standard TS-2. Liquid crystal displays shall be undamaged by temperatures as high as 165 degrees F, and shall produce a usable display at temperatures up to 120 degrees F.
    5.2. **Equipment in Controlled Environments:** shall operate normally at any combination of temperatures between 50 degrees F and 100 degrees F, and humidity's between 5 percent and 90 percent, non-condensing, and with a temperature gradient of 9 degrees F per hour.

B.5 Patch Cables and Wiring

All cables and wiring between devices installed in a single cabinet, or in separate cabinets sharing a single concrete base, will be considered incidental to the installation of the devices and no separate payment will be made for them. It is anticipated that this will include fiber optic patch cables between termination panels and Ethernet switches, 10 / 100 MBPS Ethernet cables, RS-232 cables between individual devices and terminal servers, and power cables between individual devices and power sources within the cabinets.

B.6 Surge Protection

Low-voltage signal pairs, including twisted pair communication cable entering each cabinet shall be protected by two-stage, plug-in surge protectors and shall be installed on both ends of camera control cables. The protectors shall meet or exceed the following minimum requirements:

1. The protectors shall suppress a peak surge current of up to 10k amps.
2. The protectors shall have a response time less than one nanosecond.
3. The protector shall clamp the voltage between the two wires at a voltage that is no more than twice the peak signal voltage and clamp the voltage between each wire and ground at 50 volts.
4. The first stage of protection shall be a three-element gas discharge tube, and the second stage shall consist of silicon clamping devices.
5. The protector shall also contain a resettable fuse (PTC) to protect against excessive current.
6. There shall be no more than two pairs per protector.
7. It shall be possible to replace the protector without using tools.

Cables carrying power to curve signs shall be protected at the cabinet by grounded metal oxide varistors of appropriate voltages. The varistors must be at least 0.8 inch in diameter.

C Construction

C.1 Thread Protection

Provide rust, corrosion, and anti-seize protection at all thread assemblies of metallic parts by coating (non-spray) the mating surfaces with an approved compound. Failure to use an approved compound will result in no payment for the items to which coating was to have been applied.

C.2 Cable Installation

When installing new cables into conduits containing existing cables, remove the existing cables and reinstall the existing cables simultaneously with the new cables. Take every precaution necessary to protect the existing cables. In the event of avoidable damage to the existing cables, replace all damaged cables, in-kind, at no additional expense to the department. When cables are pulled into conduit, use a cable pulling lubricant approved by the cable manufacturer. Submit documentation supporting manufacturer approval of the lubricant to the engineer.

C.3 Wiring

Every conductor, except a conductor contained entirely within a single piece of equipment, must terminate either in a connector or on a terminal block. Provide and install the connectors and terminal blocks where needed, without separate payment. Use approved splice kits instead of connectors and terminal blocks for underground power cable splices.

Permanently label and key connectors to preclude improper connection. Obtain prior engineer approval for labeling methods before use.

Terminal blocks must be affixed to panels that permanently identify the block and what wire connects to each terminal. This may be accomplished by silk screening or by installing a laminated printed card under the terminal block, with the labels on portions of the card that extend beyond the block. Installation of terminal blocks by drilling holes in the exterior wall of the cabinet is not acceptable.

Use barriers to protect personnel from accidental contact with all dangerous voltages.

Do not install conductors carrying AC power in the same wiring harness as conductors carrying control or communication signals.

Arrange wiring, including fiber optic pigtails, so that any removable assembly can be removed without disturbing wiring that is not associated with the assembly being removed.

Communication and control cables may not be spliced underground, except where indicated on the plans.

Cables in the Traffic Management Center (TMC) or in communication hubs, which are not contained within a single cabinet, shall have at least 10 feet of slack.

C.4 System Operations

If the contractor's operations unexpectedly interrupt Intelligent Transportation Systems (ITS) service, notify the engineer immediately and restore service within 24 hours. Repair all damaged facilities to the condition existing before the interruption. If service is not restored within 24 hours, the department may restore service to any operating device and deduct restoration costs from payments due the contractor.

C.5 Surge Protection

Arrange the equipment and cabinet wiring to minimize the distance between each conductor's point of entry and its protector. Locate the protector as far as possible from electronic equipment. Ensure that all wiring between the surge protectors and the point of entry is free from sharp bends.

D Measurement

The department will not measure the work performed under this special provision.

E Payment

The department will pay for the work performed under this special provision under the contract ITS bid items.

stp-670-010 (20230629)

32. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 9:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.

stp-107-001 (20060512)

33. Leadership Partnering Meetings.

The department will implement mandatory monthly leadership partnering meetings. Unless the department and contractor agree otherwise, the contractor management level personnel, project design engineers, project level supervisory personnel, and department management level personal shall meet monthly from project start until the contractor accepts the tentative final estimate. The contractor and department may also invite the following as needed:

- Key project personnel of the contractor's principal subcontractors and suppliers
- Local government representatives
- Environmental regulators
- Emergency service personnel
- Utility companies
- Impacted business and property owners
- Other stakeholders

This meeting will facilitate a cooperative team environment that clearly defines roles and responsibilities, determines common goals and objectives, and provides a platform to build trust and accountability. Meeting topics may include:

- Issue and risk management
- Dispute resolution procedures
- Safety
- Public outreach
- Traffic management
- Cost reducing incentives
- Claim resolution
- Scheduling issues
- Quality control

All mobilization workshop costs are incidental to the contract work.

sef-108-030 (20171004)

34. Public Involvement Meetings.

Participate in department-sponsored public involvement meetings as the engineer requests. Ensure that representatives of subcontractors also participate in those meetings if the engineer requests.

sef-999-040 (20160915)

35. Traffic Meetings and Traffic Control Scheduling.

Every Wednesday by 9:00 AM, submit a detailed proposed 2-week look-ahead traffic closure schedule to the engineer. Type the detailed proposed 2-week look-ahead closure schedule into an excel spreadsheet provided by the engineer. Enter information such as closure dates, duration, work causing the closure and detours to be used. Also enter information such as ongoing long-term closures, emergency contacts and general 2-month look-ahead closure information into the excel spreadsheet.

Meet with the engineer between 10:00 - 10:30 AM on Wednesdays at the project field office to discuss and answer questions on the proposed schedule. Edit, delete and add closures to the detailed proposed 2-week look-ahead schedule, as directed by the engineer, so that proposed closures meet specification requirements. Other edits, deletions or additions unrelated to meeting specification requirements may also be agreed upon with the engineer during the 10:00 AM meeting.

Every Wednesday at 2:00 PM, or as scheduled by the engineer, attend a weekly traffic meeting. The meeting will bring local agencies, project stakeholders, owner managers, owner engineers, contractors, document control and construction engineering personnel together to discuss traffic staging, closures and general impacts. Upon obtaining feedback from the meeting attendees, edit, delete and add information to the detailed 2-week look-ahead closure schedule, as needed. Submit the revised 2-week look-ahead to the engineer.

Obtain approval from the engineer for any mid-week changes to the closure schedule. Revise the 2-week look-ahead as required and obtain engineer approval.

sef-643-040 (20150319)

36. Available Documents.

The department will make its information available to bidding contractors. The list of documents that are available for contractors' information includes:

- Design Study Report
- Pavement Type Selection Report
- Environmental Document
- As-Built Drawings
- Preconstruction survey
- Traffic Management Plan

These documents are available from Clayton Smith at 141 NW Barstow Street, Waukesha, WI 53187, (262) 548-6428.

Reproduction costs will be applied to all copies requested.

sef-102-005 (20170310)

37. Geotechnical Investigation Information.

Replace standard spec 102.5(3) 2 with the following:

Available information relative to subsurface exploration, borings, soundings, water levels, elevations, or profiles are available for review at the department's Regions office. Contact Clayton Smith, clayton.smith@dot.wi.gov.

141 NW Barstow Street, Waukesha, WI 53187, (262) 548-5428.

Geotechnical Report for auxiliary lanes, sign structures, C-40-47 wing wall, B-40-358 and B-40-359 bridge widening and noise wall N-40-105.

Technical Memorandum for butterfly sign Structures S-40-3060, S-40-3061, and S-40-3062.

Additional geotechnical information is available from studies and analyses that have been performed by HNTB for the department for other aspects of this project. Review the available information to determine if it is of use. The use or not of the geotechnical information does not relieve performing the work conforming to the plans and specifications.

sef-102-010 (20170310)

38. Contractor Notification.

Replace standard spec 104.2.2.2(2) with the following:

(2) If the contractor discovers the differing condition, provide a written notice, as specified in standard spec 104.3.3, of the specific differing condition before further disturbing the site and before further performing the affected work.

Replace standard spec 104.3.2 and 104.3.3 with the following:

104.3.2 (Vacant)

104.3.3 Contractor Initial Written Notice

(1) If required by standard spec 104.2, or if the contractor believes that the department's action, the department's lack of action, or some other situation results in or necessitates a contract revision, promptly provide a written notice to the engineer. At a minimum, provide the following:

1. A written description of the nature of the issue.
2. The time and date of discovering the problem or issue.
3. If appropriate, the location of the issue.

(2) Provide the additional information specified in standard spec 104.3.5 as early as possible to assist the engineer in the timely resolution of an identified issue. The engineer will not require, in subsequent submissions, duplication of information already provided.

sef-104-005 (20141211)

39. Contractor Document Submittals.

This special provision describes minimum requirements for submitting project documents to the department. This special provision does not apply to shop drawing submittals.

Provide one electronic copy of all documents requiring department review, acceptance, or approval. Attach a completed engineer-provided transmittal sheet to each email submittal. The department will reject submittals with incomplete transmittal sheets and require re-submittal.

The department will return one reviewed, accepted, or approved original to the contractor. Additional return originals can be requested. Submit an additional original for each additional return original requested.

Submit electronic copies in PDF format to the engineer-designated folder within the department's SharePoint site. Send alerts with a link to the document via email to accounts the engineer determines. If possible, create PDFs from original documents in their native format (e.g. Word, Excel, AutoCAD, etc.). Scan other documents to PDF format with a minimum resolution of 600 dpi.

All costs for contractor document submittals are incidental to the contract.

sef-105-010 (20150619)

40. Dust Control Implementation Plan.

A Description

This special provision describes developing, updating, and implementing a detailed Dust Control Implementation Plan (DCIP) for all land-disturbing construction activities and associated impacts both within the project site boundaries and outside the project site boundaries. Incorporate contract bid items that this article specifies into the DCIP.

B (Vacant)

C Construction

C.1 General

Control dust on the project as specified in standard spec 107.18. Minimize dust emissions resulting from land disturbing activities. Do not generate excessive air borne particulate matter (PM) or nuisance dust conditions. Control dust at all times during the contract.

Submit a DCIP to the engineer for review at least 14 calendar days before the preconstruction conference. Coordinate with the department, if requested, to resolve DCIP related issues before the preconstruction conference. The department will either approve the DCIP or request revisions. Do not initiate land-disturbing activities without the department's approval of the DCIP.

C.2 DCIP Contents

Develop a DCIP tailored to the specific needs of the project. Consider potential impacts to businesses and residences adjacent to the job site. Describe in detail all land disturbing, dust generating activities. Identify strategies to prevent, mitigate, and collect excess dust. Establish clear lines of communication with the engineer to ensure that all dust control issues can be dealt with promptly.

Include all of the following:

1. A single contact person with overall responsibility for the DCIP development as well as surveillance and remediation of job related dust. Provide:
   - Name, firm, address, and working-hours phone number.
   - Non-working-hours phone number.
   - Email address.
2. A site map locating project features, the job site boundaries, all ingress and egress points, air intakes and other dust-sensitive areas, and all public and private paved surfaces within and adjacent to the job site. Show where specific land disturbing, dust generating activities will occur and, to the extent possible, where employing various dust control or prevention strategies.

3. A matrix, or plan, for each anticipated land disturbing, dust generating activity, showing the following:
    - Preventive measures that shall be employed.
    - The applicable contact person.
    - The contractor's timetable and surveillance measures used to determine when remediation is required.
    - The specific dust control and remediation measures that shall be employed. Identify the specific contract bid items that shall be used for payment. Indicate costs and practices that are incidental to the contract.
    - Both maintenance and cleanup schedules and procedures.
    - Excess and waste materials disposal strategy.
4. A description of monitoring and resolving off-site impacts.

C.3 Updating the DCIP

Update the DCIP during the contract or as the engineer directs. Obtain the engineer's approval for all DCIP alterations. Also obtain the engineer's approval for routine DCIP adjustments for weather, job conditions, or emergencies that will have an impact on payment under the bid items listed in the approved DCIP.

C.4 Dust Control Deficiencies

Coordinate with engineer to determine deadlines for resolving dust control deficiencies. Deficiencies include actions or lack of actions resulting in excessive dust, non-compliance with the contractor's DCIP or associated special provisions, and not properly maintaining equipment.

D Measurement

The department will measure the various bid items associated with dust control as specified in the applicable measurement subsections of either the standard specs or other contract special provisions. The department will not measure work performed under a DCIP alteration unless the engineer specifically approves that alteration.

Measurement under the DCIP includes the contract bid items listed in this special provision:

623.0200	Dust Control Surface Treatment
624.0100	Water
628.7560	Tracking Pads

The department will measure work completed under other existing contract bid items if approved as a part of the DCIP. The department will consider new bid items to the contract if proposed under the DCIP. The department will not measure work required under the DCIP that is not included in contract bid items.

E Payment

All costs associated with the development and updating of the DCIP are incidental to the contract. The department will pay separately for the work required to implement the actions approved in the DCIP under the contract bid items approved as a part of the DCIP. All other costs associated with work approved under the DCIP are incidental to the contract.

sef-107-005 (20170323)

41. Project Site Air Quality.

Because fine particulate matter levels for Milwaukee, Racine and Kenosha Counties are typically close to $PM_{2.5}$ limits and the project is in a non-attainment area for the federal 8-hour ozone standard, contributions from construction activities can have a major impact well beyond the project limits. Take practical measures to mitigate the impact of operating construction equipment on the air quality in and around the project site.

Voluntarily establishing the staging zones for trucks waiting to load and unload is encouraged by the department. Locate staging zones where idling of diesel-powered equipment will have minimal impact on abutting properties and the general public. The department will make signs available to help identify these zones. Have truckers queue up in these zones whenever it is practical. The department further encourages drivers to shut down diesel trucks as soon as it appears likely that they will be queued up for more than ten minutes. Notify employees and sub-contractors about fueling and engine idling.

Portable Concrete Crusher Plants

Portable concrete crusher plants may need a NR 440 Concrete Crusher Plant Air Permit for air emissions. Please contact Wisconsin Department of Natural Resources to request additional information and permit application materials. Complete permit applications may take 3 months to process.

sef-999-039 (20160929)

42. Construction Over or Adjacent to Navigable Waters.

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

stp-107-060 (20171130)

43. Maintaining Drainage.

Maintain drainage at and through worksite during construction conforming to standard spec 107.22, 204, 205 and 520.

Use existing storm sewers, existing culvert pipes, existing drainage channels, temporary culvert pipes, or temporary drainage channels to maintain existing surface and pipe drainage. Pumps may be required to drain the surface, pipe, and structure discharges during construction. Costs for furnishing, operating, and maintaining the pumps is considered incidental to the project.

Dewatering (Mechanical Pumping) for Bypass Water (sediment-free) Operations

If dewatering bypass operations are required from one pipe structure to another downstream pipe structure or from the upstream to downstream end of a culvert and the bypass flow is not transporting sediments (sand, silt, and clay particles) from a tributary work site area, bypass pumping operations will be allowed provided that the department has been made aware of and approves operation. When pumping bypass flows, the discharge location will need to be stable and not produce erosion from the discharge velocity that would cause release of sediment downstream.

Dewatering (Mechanical Pumping) for treatment Water (sediment-laden) Operations

If dewatering operations require pumping of water containing sediments (sand, silt, and clay particles), the discharge will not be allowed to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Refer to article Erosion Control in these special provisions for additional requirements.

sef-107-016 (20170310)

44. Removing Concrete Surface Partial Depth, Item 204.0109.S.

A Description

This special provision describes removing a portion of concrete surfaces as the plans show and conforming to standard spec 204.

B (Vacant)

C Construction

C.1 Equipment

Use a machine that provides a surface finish acceptable to the engineer. Shroud the machine to prevent discharge of any loosened material into adjacent work areas or live traffic lanes.

Use a machine that is equipped with electronic devices that provide accurate depth, grade and slope control, and acceptable dust control system.

C.2 Methods

Remove existing concrete to the depths as shown on the plan by grinding, planing, chipping, sawing, milling, or by using other methods approved by the engineer.

Perform the removal operation in such a manner as to preclude damage to the remaining pavement and results in a reasonable uniform plane surface free of excessive large scarification marks and having a uniform transverse slope.

The sequence of removal operations shall be such that no exposed longitudinal joints 2 inches or more in depth remain during non-working hours. Windrowing or storing of the removed material on the roadway will only be permitted in conjunction with a continuous removal and pick-up operation. During non-working hours, clear the roadway of all materials and equipment.

Removed pavement becomes the property of the contractor. Properly dispose of it as specified in standard spec 204.3.1.3.

D Measurement

The department will measure Removing Concrete Surface Partial Depth in area by the square foot of surface area removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0109.S	Removing Concrete Surface Partial Depth	SF

Payment is in full compensation for removing the concrete; and for disposing of materials.

stp-204-041 (20080902)

45. Pavement Breaking Equipment.

Do not use guillotine, drop hammer, falling weight, gravity impact breakers or equivalent equipment within 300 feet of any structure. A multi-head hydraulic hammer is allowed unless a structure is within 50 feet of the roadway.

SER-204-001 (20161123)

46. Removing Asphaltic Longitudinal Notched Wedge Joint Milling, Item 204.0126.S.

A Description

This special provision describes the milling and removing of the upper layer HMA longitudinal notched wedge joint, including sweeping and cleaning of the affected area prior to paving the adjacent lane. Follow drop-off and hazard protection in standard spec 104.6.1.2.3.

B (Vacant)

C Construction

Prior to paving the adjacent upper layer HMA lane, mill longitudinal notched wedge joint to a true line with a face perpendicular to the surface of the existing asphaltic surface pavement as the plans show or the engineer directs. Provide a uniform milled surface that is reasonably plane, free of excessively large scarification marks, and has the grade and transverse slope the plans show, or the engineer directs. Do not damage the remaining pavement.

Use a self-propelled milling machine with depth, grade, and slope controls. Shroud the drum to prevent discharging loosened material onto the adjacent work areas or live traffic lanes. Provide an engineer-approved dust control system.

Thoroughly clean the milled surface and completely remove all millings from the project site. Unless using a continuous removal and pick-up operation, do not windrow or store material on the roadway. Clear the roadway of all material and equipment during non-working hours. The contractor becomes the owner of the removed asphaltic pavement and is responsible for the disposal as specified in standard spec 204.3.1.3.

D Measurement

The department will measure Removing Asphaltic Longitudinal Notched Wedge Joint Milling by the linear foot unit for all wedge joints, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0126.S	Removing Asphaltic Longitudinal Notched Wedge Joint Milling	LF

Payment is full compensation for milling, removing, sweeping, cleaning, and disposing of materials.

stp-204-045 (20191121)

47. Removing Concrete Barrier.

Add the following to standard spec 204.3.2.2.1 as paragraph fourteen:

(14) Under the Removing Concrete Barrier bid item, remove barrier and footing, unless specified in the plans, at the locations the plans show. Removal includes all required sawing conforming to standard spec 690.

Add the following to standard spec 204.5.1(2) as paragraph two:

(2) Payment for Removing Concrete Barrier is full compensation for all required sawing and removal of existing barrier and footing, and sludge removal.

sef-204-025 (20180104)

48. Abandoning Sewer, Item 204.0291.S.

A Description

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

B Materials

Provide cellular concrete meeting the following specifications: 1 part cement, 1 part fly ash, 8 parts sand, or an approved equal, and water. Provide cement meeting the requirements of standard spec 501.2.4.1. Provide sand meeting the requirements of standard spec 501.2.7.2. Provide water meeting the requirements of standard spec 501.2.6.

C Construction

Fill the abandoned sewer pipe with cellular concrete 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.

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.S	Abandoning Sewer	CY

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

49. Storm Sewer.

Supplement standard spec 204.5.1 with the following:

QMP sampling, testing and documentation if applicable is incidental to removing storm sewer bid item and no separate payment will be made.

Supplement standard spec 608.2 with the following:

Two weeks prior to start of storm sewer construction, provide a shoring design and installation sequence for each location where shoring is to be used. Have a professional engineer, currently registered in the State of Wisconsin and knowledgeable of the specific site conditions and requirements, verify the adequacy of the design. Submit one electronic copy in portable document format of each shoring design, signed and sealed by the same professional engineer verifying the design, to the engineer for incorporation into the permanent project record.

Supplement standard spec 608.3.1 with the following:

(1) Incorporate excavated material in the work to the extent practicable. Use materials with suitable engineering properties for embankment.

(2) Dispose of surplus or unsuitable material as specified in standard spec 205.3.12.

Supplement standard spec 608.3.4 with the following:

Place rubber gasket joints over the spigot end or tongue of the entering pipe for all round storm sewer pipes horizontal and elliptical pipes with a rise less than or equal to 40-inches. Clean the gasket and the ends of the pipe from sand and gravel. If the gasket provided is neither factory lubricated nor self-lubricating, lubricate the outside of the gasket and the inside of the bell or groove of the last pipe with an engineer - approved vegetable lubricant immediately before making the joint. Place the spigot or tongue of the pipe being laid with the gasket in place into the bell or groove end of the previously laid pipe. Set pipe carefully to line and grade and push or jack home. The engineer may order the use of a jack or “come-along” if deemed necessary to ensure that the joints are completely tight.

For horizontal elliptical pipe rise greater than 40-inches use mastic joint compound. Where factory lubricated rubber gasket joints are not available, clean the ends of the pipe from sand and gravel. Place engineer-approved mastic joint sealer on both the spigot and bell ends of the pipe being laid. Apply additional mastic around each joint exterior and wrap each joint with Geotextile Fabric Type DF laid flat meeting requirements of standard spec 645. Wrap each joint so that the Geotextile Fabric overlaps each joint a distance of approximately one-half of the pipe diameter.

Replace standard spec 608.5(2) with the following:

Payment for the Storm Sewer Pipe bid items is full compensation for providing all materials, including all special Y’s, mitered sections, elbows and connections required; for all submittals; for excavating and wasting excess material, except rock excavation; for providing rubber gaskets; Lubrication of rubber gaskets; mastic joint sealer; for supporting utilities in storm sewer trench; for shoring design, providing a signed and sealed copy of the design; for installation, monitoring, and removal of shoring; for forming foundation; for laying pipe; for sealing joints and making connections to new or existing features, bedding material; for backfilling and granular backfill material; for QMP sampling, testing and documentation; for cleaning out; and absent the pertinent contract bid items, for restoring the work site.

50. Remove Traffic Signals IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item 204.9060.S.0100.

A Description

This special provision describes removing existing traffic signals at the intersection of IH 41 NB Ramps & CTH EE (W. Hampton Ave) according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

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 traffic signals can be removed.

Notify the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

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 traffic signal equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, will be replaced by the contractor at no cost to the department.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Remove the signal heads, emergency vehicle preemption heads (evp), mast arms, luminaires, wiring/cabling, and traffic signal mounting devices from each signal standard, arm or pole. Ensure that all access hand hole doors and all associated hardware remain intact. Dispose of the underground signal cable, internal wires and street lighting cable off the state right-of-way. Deliver the remaining materials to the West Allis Electrical Service Facility at 935 South 60th Street, West Allis, Milwaukee County. Contact the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to delivery to make arrangements.

DOT forces shall remove the signal cabinet from the footing. The signal cabinet and associated signal cabinet equipment will be removed from the site by DOT forces and will remain the property of the department.

D Measurement

The department will measure Remove Traffic Signals as a single unit of work for each 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
204.9060.S.0100	Remove Traffic Signals IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material, for delivering the requested materials to the department.

51. Remove Loop Detector Wire and Lead-in Cable, IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item 204.9060.S.0101.

A Description

This special provision describes removing loop detector wire and lead-in cable at the IH 41 NB Ramps & CTH EE (W. Hampton Ave). Removal will be according to standard spec 204, as shown in the plans, and as hereinafter provided.

B (Vacant)

C Construction

Notify the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to the removal of the loop detector wire and lead-in cable.

Remove and dispose of detector lead-in cable including loop wire for abandoned loops off the right-of-way.

D Measurement

The department will measure Remove Loop Detector Wire and Lead-in Cable as a single unit of work for each 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
204.9060.S.0101	Remove Loop Detector Wire and Lead in Cable, IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for removing, scrapping, and disposing of material.

52. Removing Lighting Units, Items 204.9060.S.1001.

A Description

This special provision describes the removing lighting units as the plans show, conforming to standard spec 204, and as follows.

B Materials

All removed material shall become the property of the contractor and be disposed off the project site, except for LED and HPS light fixtures and bulbs. LED and HPS light fixtures and bulbs are considered hazardous material, disposal shall be done by the contractor utilizing bid item 659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor.

C Construction

Remove lighting units consisting of pole, arm, luminaire, lamp, wires, breakaway device, and associated hardware and appurtenances.

No removal work will be permitted without approval from the engineer. Removal shall start as soon as the temporary lighting or permanent lighting, as applicable, is placed in approved operation. An inspection and approval by the engineer will take place before any associated proposed permanent or temporary lighting is approved for operation.

D Measurement

The department will measure Removing Lighting Units by each individual unit removed, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.1001	Removing Lighting Units	EACH

SER-204.15 (20220214)

53. Removing Concrete Bases Type HF3, Item 204.9060.S.1002.

A Description

This special provision describes complete removal of existing double-faced barrier-shaped light pole bases in the freeway median, generally consisting of about three cubic yards of reinforced concrete masonry.

B (Vacant)

C Construction

Dispose of materials off the site. In the case that removal results in a depression below adjacent grade, backfill with granular material as directed by the engineer.

D Measurement

The department will measure Removing Concrete Bases Type HF3 by the 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
204.9060.S.1002	Removing Concrete Bases Type HF3	EACH

Payment will be full compensation for removing, hauling, and disposing of materials; and for any required granular backfill.

54. Removing Poles Wood 60-Foot, Item 204.9060.S.1003.

A Description

Remove 60-foot wood poles as shown on the plans.

B (Vacant)

C Construction

In addition to removing the attached conduit and wiring according to standard spec 204, backfill all openings or holes to the elevation of the surrounding ground, and landscape all disturbed areas from these removals. Dispose of all materials off site.

D Measurement

The department will measure Removing Poles Wood 60-Foot as a unit for each pole, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.1003	Removing Poles Wood 60-foot	EACH

Payment is full compensation for removing wood pole; all excavation and backfill; and for removal and disposal of material.

55. Removing Poles Wood 60-Foot and Floodlights, Item 204.9060.S.1004.

A Description

Remove 60-foot wood pole lighting units and attached conduit and wiring as shown on the plans and according to standard spec 204, remove mast arm or bracket arm, luminaire, air terminal, and junction box, backfill openings or holes to the elevation of the surrounding ground, and landscape all disturbed areas from these removals. Separate payment will be made for lamp disposal.

B (Vacant)

C Construction

Dispose of all materials except for LED and HPS light fixtures and bulbs. LED and HPS light fixtures and bulbs are considered hazardous material, disposal shall be done by the contractor utilizing bid item 659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor.

The department will allow, at the contractor's discretion, to reuse removed wood pole lighting units at new location, if possible. The bid price is to reflect the salvage value of the removed wood pole lighting unit. The department will allow, at the contractor's discretion, to reuse removed temporary wood pole lighting units at new location, if possible.

D Measurement

The department will measure Removing 60-Foot Wood Poles And Floodlights by the unit removed and disposed of, or returned to the department, as directed by the engineer.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.1004	Removing Poles Wood 60-Foot and Floodlights	EACH

Payment is full compensation for removing wood pole lighting units; all excavation and backfill; and for removal and disposal of material.

56. Select Crushed Material.

Replace standard spec 312.2(6) with the following:

The department will assess Select Crushed Material acceptability based primarily on the engineer's visual inspection. The department may require the contractor to sample, test, and report gradation or the fracture results to show conformance of the material. One test per source, production process, or change of production process may be required.

Replace standard spec 312.5(2) with the following:

Payment for Select Crushed Material is full compensation for providing and compacting Select Crushed Material and all work necessary to provide gradation or fracture test results.

SER-321-001 (20160831)

57. QMP HMA Pavement Nuclear Density.

A Description

Replace standard spec 460.3.3.2 (1) and standard spec 460.3.3.2 (4) with the following:

(1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 except as modified in this special provision.

(2) Provide and maintain a quality control program defined as all activities and documentation of the following:

1. Selection of test sites.
2. Testing.
3. Necessary adjustments in the process.
4. Process control inspection.

(3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required procedures.

https://wisconsindot.gov/rdwy/cmm/cm-08-00.pdf

(4) The department's Materials Reporting System (MRS) software allows contractors to submit data to the department electronically, estimate pay adjustments, and print selected reports. Qualified personnel may obtain MRS software from the department's web site at:

http://www.atwoodsystems.com/

B Materials

B.1 Personnel

(1) Nuclear gauge owners and personnel using nuclear gauges shall comply with WisDOT requirements according to 460.3.3 and CMM 815.

B.2 Testing

(1) Conform to WTM T355 and CMM 815 for density testing and gauge monitoring methods. Conform to CMM 815.10.4 for test duration and gauge placement.

B.3 Equipment

B.3.1 General

(1) Furnish nuclear gauges according to CMM 815.2.

(2) Furnish nuclear gauges from the department's approved product list at

https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx

B.3.2 Comparison of Nuclear Gauges

B.3.2.1 Comparison of QC and QV Nuclear Gauges

(1) Compare QC and QV nuclear gauges according to WTM T355.

B.3.2.2 Reference Site Monitoring

(1) Conduct reference site monitoring for both QC and QV gauges according to WTM T355.

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 815.10.2.

(2) Determine required number of tests according to CMM 815.10.2.1.

(3) Determine random testing locations according to CMM 815.10.3.

B.4.1.2 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 815.10.2.

(2) Determine required number of tests according to CMM 815.10.2.2.

(3) Determine random testing locations according to CMM 815.10.3.

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

(1) Calculate the average sublot densities using the individual test results in each sublot.

(2) If all sublot averages are no more than one percent below the target density, calculate the daily lot density by averaging the results of each random QC test taken on that day's material.

(3) If any sublot average is more than one percent below the target density, do not include the individual test results from that sublot when computing the lot average density and remove that sublot's tonnage from the daily quantity for incentive. The tonnage from any such sublot is subject to disincentive pay as specified in standard spec 460.5.2.2.

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.2.2 Width of 5 Feet or Less

(1) If all sublot test results are no more than 3.0 percent below the minimum target density, calculate the daily lot density by averaging all individual test results for the day.

(2) If a sublot test result is more than 3.0 percent below the target density, the engineer may require the unacceptable material to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine the limits of the unacceptable material according to B.4.3.

B.4.2.3 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.4 Documentation

(1) Document QC density test data as specified in CMM 815. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

(1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.

(2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted sublot. Testing in a previously accepted sublot will not be used to recalculate a new lot density.

(3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full sublot width within the traffic lanes or shoulders.

(4) Retesting and acceptance of replaced pavement will be as specified in standard spec 105.3.

(5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the sublot and lot densities.

(6) If two consecutive sublot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing

B.5.1 Verification Testing

(1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's QC work. The department will perform verification testing at a minimum frequency of 10 percent of the sublots and a minimum of one sublot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.

(2) The QV tester will test each selected sublot using the same testing requirements and frequencies as the QC tester.

(3) If the verification sublot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.

(4) If the verification sublot average is more than one percent below the specified target density, compare the QC and QV sublot averages. If the QV sublot average is within 1.0 lb/ft^3 of the QC sublot average, use the QC tests for acceptance.

(5) If the first QV/QC sublot average comparison shows a difference of more than 1.0 lb/ft^3 each tester will perform an additional set of tests within that sublot. Combine the additional tests with the original set of tests to compute a new sublot average for each tester. If the new QV and QC sublot averages compare to within 1.0 lb/ft^3, use the original QC tests for acceptance.

(6) If the QV and QC sublot averages differ by more than 1.0 lb/ft^3 after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

B.5.2 Independent Assurance Testing

(1) Independent assurance is unbiased testing the department performs to evaluate the department's verification and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform the independent assurance review according to the department's independent assurance program.

B.6 Dispute Resolution

(1) The testers may perform investigation in the work zone by analyzing the testing, calculation, and documentation procedures. The testers may perform gauge comparison according to B.3.2.1.

(2) The testers may use comparison monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.

(3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV sublot density test results or retesting of the sublot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.

(4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

B.7 Acceptance

(1) The department will not accept QMP HMA Pavement Nuclear Density if a non-compared gauge is used for contractor QC tests.

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

(1) Costs for all sampling, testing, and documentation required under this special provision are incidental to the work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the Non-performance of QMP administrative item.

E.2 Disincentive for HMA Pavement Density

(1) The department will administer density disincentives as specified in standard spec 460.5.2.2.

E.3 Incentive for HMA Pavement Density

(1) The department will administer density incentives as specified in standard spec 460.5.2.3.

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58. HMA Pavement 5 SMA 58-28 V, Item 460.8625; HMA Pavement Test Strip Volumetrics, Item 460.0115.S; HMA Pavement Test Strip Density, Item 460.0120.S.

A Description

Conform to standard spec 450 and 460 except as modified in this special provision.

B (Vacant)

C Construction

Add the following to standard spec 450.3.1.3 to require transfer vehicle for SMA:

(2) Use a Material Transfer Vehicle when constructing SMA pavement.

Add the following to standard spec 450.3.1.5 to prohibit rubber-tire roller on SMA:

(3) Do not use a rubber-tired roller for compaction of SMA pavement.

Add the following to standard spec 460.3.3.2 to require and define approval criteria for SMA test strips:

(5) Construct a test strip according to CMM 815.13 to correlate nuclear gauges to pavement cores according to WTM T 355, confirm SMA in-place density using cores and determine mixture air voids. Submit the test strip start time and date to the department in writing at least 5 calendar days in advance of construction of the test strip. The department will assess the contractor $2,000 for each instance according to Section E of this special provision if paving does not begin within 2 hours of the submitted start time, delaying the test strip. Alterations to the start time and date must be submitted to the department in writing a minimum of 24 hours prior to the start time. The contractor will not be liable for changes in start time related to adverse weather days as defined by standard spec 101.3 or equipment breakdown verified by the department.

Construct the test strip at the beginning of work for each SMA mixture, for each layer and for each thickness. All SMA test strip material produced shall meet the requirements in Tables 460-1 and 460-2 and conform to the JMF limits presented herein except as follows:

ITEM	JMF Limits
Asphaltic content in percent [1]	- 0.5
VMA in percent[2]	- 1.0
Air Voids in percent	According to the SMA Test Strip Approval Criteria Below

[1] Asphalt content more than -0.5% below the JMF will be referee tested by BTS using automated extraction according to WTM D8159.

[2] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1 as modified herein.

The test strip shall remain in place and become part of the completed pavement when acceptably produced, acceptably compacted, and meets finish and smoothness requirements. CMM 815 describes the SMA density and volumetric testing tolerances required for the test strip.

(6) The test strip is to be treated as a single/separate lot and will have densities and pay adjustments calculated accordingly. The department will test one of the two split samples for volumetrics to determine test strip approval. If the QV air void sample is outside of the limits for 100% pay (i.e., $3.2 \leq Va \leq 5.8$), send both QV-retained split samples to BTS for dispute resolution testing. The results from the BTS dispute resolution testing will determine material conformance and payment for the test strip according to the SMA Prorated Pay Factors Table in CMM 836.9.3.3. If QV and QC test results exceed testing tolerances (0.015 for Gmm or Gmb), both retained split samples will be tested by BTS. In this case, additional investigation shall be conducted to identify the source of the difference between QV and QC data and BTS referee test data will be used to determine material conformance and pay.

Pay adjustments made as part of dispute resolution on test strip material will be limited to the test strip and will not extend to material placed during main production nor will pay adjustments made on main production extend into the test strip. The department will notify the contractor within 24 hours of the start of test strip construction regarding approval to proceed with paving beyond the test strip. The department will evaluate mixture air voids, test strip density, and nuclear gauge to core correlation in determining test strip approval and material conformance according to the following:

SMA Test Strip Approval Criteria

Approval / Material Conformance [1]	QV Air Voids	Average Density of All Cores [2]	Outcome of Test Strip for Contractor
Approved / Material Conforming	$3.2 \leq Va \leq 5.8$	≥ 93.0 %	Proceed with production
Test Strip Approved / Material Nonconforming	$2.8 \leq Va \leq 3.2$ or $5.8 < Va \leq 6.2$	≥ 91.0 %	Propose solution and proceed with production. Payment for material will be based on BTS referee tests.
Test Strip Not Approved / Material Nonconforming	$2.5 \leq Va < 2.8$ or $6.2 < Va \leq 6.5$	< 91.0 %	Stop production, submit cause and solution, make additional 500-ton test strip. Payment for material will be based on BTS referee tests.
Test Strip and Material are Unacceptable [3]	$Va < 2.5$ or $Va > 6.5$	< 90.0 %	Stop production, submit cause and solution, make additional 500-ton test strip, and complete new core to nuclear density gauge correlation.

[1] The overall result of each test strip will coincide with the more restrictive result from air voids or density.

[2] Individual nuclear density test results more than 3.0% below the minimum density requirement must be addressed according to CMM 815.11.

[3] Unacceptable material will be removed and replaced at no additional cost to the department. Alternatively, the engineer may allow the material to remain in place with a 50 percent payment factor. Material allowed to remain in place requires another test strip prior to additional paving.

(7) An acceptable core to nuclear density gauge correlation must be completed by both the contractor and department according to CMM 815 as part of the test strip.

(8) A maximum of two test strips will be allowed to remain in place per layer per contract. If the contractor changes the mix design for a given mix type during a contract, no additional compensation will be paid by the department for the required additional test strip and the department will assess the contractor $2,000 for each additional test strip according to Section E of this special provision.

D Measurement

Add the following to standard spec 460.4:

(2) The department will measure HMA Pavement Test Strip Volumetrics and HMA Pavement Test Strip Density as each unit of work, acceptably completed, as described in CMM 815. Material quantities will be determined according to standard spec 450.4.

E Payment

Replace standard spec 460.5.1 with the following:

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

ITEM NUMBER	DESCRIPTION	UNIT
460.8625	HMA Pavement 5 SMA 58-28 V	TON
460.0115.S	HMA Pavement Test Strip Volumetrics	EACH
460.0120.S	HMA Pavement Test Strip Density	EACH

Payment for SMA is full compensation for providing SMA mixture designs; for preparing foundation; for volumetric and density testing and aggregate source testing; for asphalt binder from recycled sources; for asphalt binder modification or processes; and addition of fibers, fines, or filler.

Payment for HMA Pavement Test Strip Volumetrics is full compensation for volumetric sampling, splitting, and testing; and for proper labeling, handling; and retention of split samples.

Payment for HMA Pavement Test Strip Density is full compensation for collecting and measuring of pavement cores, acceptably filling core holes, providing of nuclear gauges and operator(s), and all other work associated with completion of a core-to-gauge correlation, as directed by the engineer.

The department will pay separately for a material transfer vehicle.

Acceptable HMA mixture placed on the project as part of a volumetric or density test strip will be compensated by the appropriate HMA Pavement bid item with any applicable pay adjustments. If a test strip is delayed as defined in standard spec 460.3.3.2(5) as modified herein, the department will assess the contractor $2,000 for each instance, under the HMA Delayed Test Strip administrative item. If an additional test strip is required because the initial test strip is not approved by the department, or the mix design is changed by the contractor, the department will assess the contractor $2,000 for each additional test strip (i.e., $2,000 for each individual volumetrics or density test strip) under the HMA Additional Test Strip administrative item.

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59. HMA Percent Within Limits (PWL) Test Strip Volumetrics, Item 460.0105.S.

A Description

This special provision describes the Hot Mix Asphalt (HMA) density and volumetric testing tolerances required for an HMA test strip. An HMA test strip is required for contracts constructed under HMA Percent Within Limits (PWL) QMP. A density test strip is required for each pavement layer placed over a specific, uniform underlying material, unless specified otherwise in the plans. Each contract is restricted to a single mix design per mix type per layer (e.g., upper layer and lower layer may have different mix type specified or may have the same mix type with different mix designs). Each mix design requires a separate test strip. Density and volumetrics testing will be conducted on the same test strip whenever possible.

Perform work according to standard spec 460 and as follows.

B Materials

Use materials conforming to HMA Pavement Percent Within Limits (PWL) QMP special provision.

C Construction

C.1 Test Strip

Submit the test strip start time and date to the department in writing at least 5 calendar days in advance of construction of the test strip. If the contractor fails to begin paving within 2 hours of the submitted start time, the test strip is delayed, and the department will assess the contractor $2,000 for each instance according to Section E of this document. Alterations to the start time and date must be submitted to the department in writing a minimum of 24 hours prior to the start time. The contractor will not be liable for changes in start time related to adverse weather days as defined by standard spec 101.3 or equipment breakdown verified by the department.

On the first day of production for a test strip, produce approximately 750 tons of HMA. (Note: adjust tonnage to accommodate natural break points in the project.) Locate test strips in a section of the roadway to allow a representative rolling pattern (i.e., not a ramp or shoulder, etc.).

C.1.1 Sampling and Testing Intervals

C.1.1.1 Volumetrics

Laboratory testing will be conducted from a split sample yielding three components, with portions designated for QC (quality control), QV (quality verification), and retained.

During production for the test strip, obtain sufficient HMA mixture for three-part split samples from trucks prior to departure from the plant. Collect three split samples during the production of test strip material. Perform sampling from the truck box and three-part splitting of HMA according to WTM R47. These three samples will be randomly selected by the engineer from each *third* of the test strip tonnage (T), excluding the first 50 tons:

Sample Number	Production Interval (tons)
1	50 to 1/3 T
2	1/3 T to 2/3 T
3	2/3 T to T

C.1.1.2 Density

Required field tests include contractor QC and department QV nuclear density gauge tests and pavement coring at ten individual locations (five in each half of the test strip length) according to Appendix A: *Test Methods and Sampling for HMA PWL QMP Projects*. Both QV and QC teams shall have two nuclear density gauges present for correlation at the time the test strip is constructed. QC and QV teams may wish to scan with additional gauges at the locations detailed in Appendix A, as only gauges used during the test strip correlation phase will be allowed.

C.1.2 Field Tests

C.1.2.1 Density

For contracts that include STSP 460-020 QMP Density in addition to PWL, a gauge comparison according to WTM T355 shall be completed prior to the day of test strip construction. Daily standardization of gauges on reference blocks and a project reference site shall be performed according to WTM T355. A standard count shall be performed for each gauge on the material placed for the test strip, prior to any additional data collection. Nuclear gauge readings and pavement cores shall be used to determine nuclear gauge correlation according to Appendix A. The two to three readings for the five locations across the mat for each of two zones shall be provided to the engineer. The engineer will analyze the readings of each gauge relative to the densities of the cores taken at each location. The engineer will determine the average difference between the nuclear gauge density readings and the measured core densities to be used as a constant offset value. This offset will be used to adjust raw density readings of the specific gauge and shall appear on the density data sheet along with gauge and project identification. An offset is specific to the mix and layer; therefore, a separate value shall be determined for each layer of each mix placed over a differing underlying material for the contract. This constitutes correlation of that individual gauge for the given layer. Two gauges per team are not required to be onsite daily after completion of the test strip. Any data collected without a correlated gauge will not be accepted.

The contractor is responsible for coring the pavement from the footprint of the density tests and filling core holes according to Appendix A. Coring and filling of pavement core holes must be approved by the engineer. The QV team is responsible for the labeling and safe transport of the cores from the field to the QC laboratory. Testing of cores shall be conducted by the contractor and witnessed by department personnel. The contractor is responsible for drying the cores following testing. The department will take possession of cores following laboratory testing and will be responsible for any verification testing at the discretion of the engineer.

The target maximum density to be used in determining core density is the average of the three volumetric/mix Gmm values from the test strip multiplied by 62.24 lb/ft^3. In the event mix and density portions of the test strip procedure are separated, or if an additional density test strip is required, the mix portion must be conducted prior to density determination. The target maximum density to determine core densities shall then be the Gmm four-test running average (or three-test average from a PWL volumetric-only test strip) from the end of the previous day's production multiplied by 62.24 lb/ft^3. If no PWL production QV volumetric test is to be taken in a density-only test strip, a non-random QV test will be taken according to 460.2.8.3.1.4 as modified in HMA Pavement Percent Within Limits (PWL) QMP and if

non-conforming to C.2.1 herein, follow corrective action outlined in 460.2.8.2.1.7(4) as modified in HMA Pavement Percent Within Limits (PWL) QMP.

Exclusions such as shoulders and appurtenances shall be tested and reported according to CMM 815. However, all acceptance testing of shoulders and appurtenances will be conducted by the department, and average lot (daily) densities must conform to standard spec Table 460-3. No density incentive or disincentive will be applied to shoulders or appurtenances. However, unacceptable shoulder material will be handled according to standard spec 460.3.3.1 and CMM 815.11.

C.1.3 Laboratory Tests

C.1.3.1 Volumetrics

Obtain random samples according to C.1.1.1 and Appendix A. Perform tests the same day as taking the sample.

Theoretical maximum specific gravities of each mixture sample will be obtained. Bulk specific gravities of both gyratory compacted samples and field cores shall be determined. The bulk specific gravity values determined from field cores shall be used to calculate a correction factor (i.e., offset) for each QC and QV nuclear density gauge. The correction factor will be used throughout the remainder of the layer.

C.2 Acceptance

C.2.1 Volumetrics

Produce mix conforming to the following limits based on individual QC and QV test results (tolerances based on most recent JMF):

ITEM	ACCEPTANCE LIMITS
Percent passing given sieve:	
37.5-mm	+/- 8.0
25.0-mm	+/- 8.0
19.0-mm	+/- 7.5
12.5-mm	+/- 7.5
9.5-mm	+/- 7.5
2.36-mm	+/- 7.0
75-µm	+/- 3.0
Asphaltic content in percent[1]	- 0.5
Air Voids	-1.5 & +2.0
VMA in percent[2]	- 1.0
Maximum specific gravity	+/- 0.024

[1] Asphalt content more than -0.5% below the JMF will be referee tested by the department's AASHTO accredited laboratory and HTCP certified personnel using automated extraction.

[2] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

QV samples will be tested for Gmm, Gmb, and AC. Air voids and VMA will then be calculated using these test results.

Calculation of air voids shall use either the QC, QV, or retained split sample test results, as identified by conducting the paired t-test with the WisDOT PWL Test Strip Spreadsheet.

If QC and QV test results do not correlate as determined by the split sample comparison, the retained split sample will be tested by the department's AASHTO accredited laboratory and HTCP certified personnel as a referee test. Additional investigation shall be conducted to identify the source of the difference between QC and QV data. Referee data will be used to determine material conformance and pay.

C.2.2 Density

Compact all layers of test strip HMA mixture according to Table 460-3.

Nuclear density gauges are acceptable for use on the project only if correlation is completed for that gauge during the time of the test strip and the department issues documentation of acceptance stating the correlation offset value specific to the gauge and mix design. The offset is not to be entered into any nuclear density gauge as it will be applied by the department-furnished Field Density Worksheet.

C.2.3 Test Strip Approval and Material Conformance

All applicable laboratory and field testing associated with a test strip shall be completed prior to any additional mainline placement of the mix. All test reports shall be submitted to the department upon completion and approved before paving resumes. The department will notify the contractor within 24 hours from start of test strip regarding approval to proceed with paving unless an alternate time frame is agreed upon in writing with the department. The 24-hour approval time includes only working days as defined in standard spec 101.3.

The department will evaluate material conformance and make pay adjustments based on the PWL value of air voids and density for the test strip. The QC core densities and QC and QV mix results will be used to determine the PWL values as calculated according to Appendix A.

The PWL values for air voids and density shall be calculated after determining core densities. An approved test strip is defined as the individual PWL values for air voids and density both being equal to or greater than 75, mixture volumetric properties conforming to the limits specified in C.2.1, and an acceptable gauge-to-core correlation. Further clarification on PWL test strip approval and appropriate post-test strip actions are shown in the following table:

PWL TEST STRIP APPROVAL AND MATERIAL CONFORMANCE CRITERIA

PWL VALUE FOR AIR VOIDS AND DENSITY	TEST STRIP APPROVAL	MATERIAL CONFORMANCE	POST-TEST STRIP ACTION
Both PWL $\geq$ 75	Approved[1]	Material paid for according to Section E	Proceed with Production
50 $\leq$ Either PWL < 75	Not Approved	Material paid for according to Section E	Consult BTS to determine need for additional test strip
Either PWL < 50	Not Approved	Unacceptable material removed and replaced or paid for at 50% of the contract unit price according to Section E	Construct additional Volumetrics or Density test strip as necessary

[1] In addition to these PWL criteria, mixture volumetric properties must conform to the limits specified in C.2.1, split sample comparison must have a passing result and an acceptable gauge-to-core correlation must be completed.

A maximum of two test strips will be allowed to remain in place per pavement layer per contract. If material is removed, a new test strip shall replace the previous one at no additional cost to the department. If the contractor changes the mix design for a given mix type during a contract, no additional compensation will be paid by the department for the required additional test strip and the department will assess the contractor $2,000 for the additional test strip according to Section E of this special provision. For simultaneously conducted density and volumetric test strip components, the following must be achieved:

i. Passing/Resolution of Split Sample Comparison
ii. Volumetrics/mix PWL value $\geq$ 75
iii. Density PWL value $\geq$ 75
iv. Acceptable correlation

If not conducted simultaneously, the mix portion of a test strip must accomplish (i) and (ii), while density must accomplish (iii) and (iv). If any applicable criteria are not achieved for a given test strip, the engineer, with authorization from the department's Bureau of Technical Services, will direct an additional test strip (or alternate plan approved by the department) be conducted to prove the criteria can be met prior to additional paving of that mix. For a density-only test strip, determination of mix conformance will be according to main production, i.e., HMA Pavement Percent Within Limits (PWL) QMP special provision.

D Measurement

The department will measure HMA Percent Within Limits (PWL) Test Strip as each unit of work, acceptably completed as passing the required air void, VMA, asphalt content, gradation, and density correlation for a Test Strip. Material quantities shall be determined according to standard spec 450.4 and detailed here within.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH

These items are intended to compensate the contractor for the construction of the test strip for contracts paved under the HMA Pavement Percent Within Limits QMP article.

Payment for HMA Percent Within Limits (PWL) Test Strip Volumetrics is full compensation for volumetric sampling, splitting, and testing, and for the proper labeling, handling, and retention of the split samples.

Payment for HMA Percent Within Limits (PWL) Test Strip Density is full compensation for collecting and measuring of pavement cores, acceptably filling core holes, providing of nuclear gauges and operator(s), and all other work associated with completion of a core-to-gauge correlation, as directed by the engineer.

Acceptable HMA mixture placed on the project as part of a volumetric or density test strip will be compensated by the appropriate HMA Pavement bid item with any applicable pay adjustments. If a test strip is delayed as defined in C.1 of this document, the department will assess the contractor $2,000 for each instance, under the HMA Delayed Test Strip administrative item. If an additional test strip is required because the initial test strip is not approved by the department or the mix design is changed by the contractor, the department will assess the contractor $2,000 for each additional test strip (i.e., $2,000 for each individual volumetrics or density test strip) under the HMA Additional Test Strip administrative item.

Pay adjustment will be calculated using 65 dollars per ton of HMA pavement. The department will pay for measured quantities of mix based on $65/ton multiplied by the following pay adjustment:

PAY ADJUSTMENT FOR HMA PAVEMENT AIR VOIDS & DENSITY

PERCENT WITHIN LIMITS (PWL)	*PAYMENT FACTOR, PF (percent of $65/ton)*
≥ 90 to 100	PF = ((PWL – 90) * 0.4) + 100
≥ 50 to < 90	(PWL * 0.5) + 55
<50	50%[1]

where, PF is calculated per air voids and density, denoted $PF_{air\ voids}$ & $PF_{density}$

[1] Material resulting in PWL value less than 50 shall be removed and replaced, unless the engineer allows for such material to remain in place. In the event the material remains in place, it will be paid at 50% of the contract unit price of HMA pavement.

For air voids, PWL values will be calculated using lower and upper specification limits of 2.0 and 4.3 percent, respectively. Lower specification limits for density will be according to Table 460-3. Pay adjustment will be determined for an acceptably completed test strip and will be computed as shown in the following equation:

$$\text{Pay Adjustment} = (PF-100)/100 \times (WP) \times (\text{tonnage}) \times (\$65/\text{ton})^*$$

*Note: If Pay Factor = 50, the contract unit price will be used in lieu of $65/ton and the weighted percentage (WP) will equal 1.0.

The following weighted percentage (WP) values will be used for the corresponding parameter:

Parameter	WP
Air Voids	0.5
Density	0.5

Individual Pay Factors for each air voids ($PF_{air\ voids}$) and density ($PF_{density}$) will be determined. $PF_{air\ voids}$ will be multiplied by the total tonnage produced (i.e., from truck tickets), and $PF_{density}$ will be multiplied by the calculated tonnage used to pave the mainline only (i.e., traffic lane excluding shoulder) as determined according to Appendix A.

The department will pay incentive for air voids under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
460.2010	Incentive Air Voids HMA Pavement	DOL

The department will administer disincentives under the Disincentive Density HMA Pavement and the Disincentive Air Voids HMA Pavement administrative items.

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60. HMA Pavement Percent Within Limits (PWL) QMP.

A Description

This special provision describes percent within limits (PWL) pay determination, providing and maintaining a contractor Quality Control (QC) Program, department Quality Verification (QV) Program, required sampling and testing, dispute resolution, corrective action, pavement density, and payment for HMA pavements. Pay is determined by statistical analysis performed on contractor and department test results conducted according to the Quality Management Program (QMP) as specified in standard spec 460, except as modified below.

B Materials

Conform to the requirements of standard spec 450, 455, and 460 except where superseded by this special provision. The department will allow only one mix design for each HMA mixture type per layer required for the contract, unless approved by the engineer. The use of more than one mix design for each HMA pavement layer will require the contractor to construct a new test strip according to HMA Pavement Percent Within Limits (PWL) QMP Test Strip Volumetrics and HMA Pavement Percent Within Limits (PWL) QMP Test Strip Density articles at no additional cost to the department.

Replace standard spec 460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater with the following:

460.2.8.2.1.3.1 Contracts under Percent within Limits

(1) Furnish and maintain a laboratory at the plant site fully equipped for performing contractor QC testing. Have the laboratory on-site and operational before beginning mixture production.

(2) Obtain random samples and perform tests according to this special provision and further defined in Appendix A: *Test Methods & Sampling for HMA PWL QMP Projects*. Obtain HMA mixture samples from trucks at the plant. For the sublot in which a QV sample is collected, discard the QC sample and test a split of the QV sample.

(3) Perform sampling from the truck box according to WTM R97 and four-part splitting of HMA samples according to WTM R47. Sample size must be adequate to run the appropriate required tests in addition to one set of duplicate tests that may be required for dispute resolution (i.e., retained). This requires sample sizes which yield four splits for all random sampling per sublot. All QC samples shall provide the following: QC, QV, Retained, and Extra. Take possession of the QC and Extra split samples intended for QC testing. The department will observe the splitting and take possession of the QV and Retained split samples intended for QV testing. Additional sampling details are found in Appendix A. Label samples according to WTM R97.

(4) Test the QC split sample using the test methods identified below at a frequency greater than or equal to that indicated. The Extra split sample shall be tested only when the Gmm and/or Gmb replicate tolerances are exceeded according to WTM T166 section 13.1.4 and WTM T209 section 14.1.1. When testing the Extra split sample, only the results from the test from which the tolerances were exceeded may replace the results from the QC split sample. The Rule of Retained according to CMM 836.1.2 applies.

- Blended aggregate gradations according to WTM T30.
- Asphalt content (AC) in percent.

  Determine AC using one of the following methods:

  - AC by ignition oven according to WTM T308. If the department is using an ignition oven to determine AC, conform to WTP H-003. If the department is not using an ignition oven to determine AC, IOCFs must still be reverified for any of the reasons listed in WTP H-003 Table 2 and conform to WTP H-003 section 3.
  - AC by chemical extraction according to AASHTO T 164 Method A or B.
  - AC by automated extraction according to WTM D8159.
- Bulk specific gravity (Gmb) of the compacted mixture according to WTM T166.
- Maximum specific gravity (Gmm) according to WTM T209.
- Air voids (V_a) by calculation according to WTM T269.
- Voids in Mineral Aggregate (VMA) by calculation according to WTM R35 section 9.2.

(5) Lot size shall consist of 3,750 tons with sublots of 750 tons. Test each design mixture at a frequency of 1 test per 750 tons of mixture type produced and placed as part of the contract. Add a random sample for any fraction of 750 tons at the end of production for a specific mixture design. Partial lots with less than three sublot tests will be included into the previous lot for data analysis and pay adjustment. Volumetric lots will include all tonnage of mixture type under specified bid item unless otherwise specified in the plan.

(6) Conduct field tensile strength ratio tests according to WTM T283 on each qualifying mixture according to CMM 836.6.14. Test each full 50,000-ton production increment, or fraction of an increment, after the first 5,000 tons of production. Perform required increment testing in the first week of production of that increment. If field tensile strength ratio values are below the spec limit, notify the engineer. The engineer and contractor will jointly determine a corrective action.

Delete standard spec 460.2.8.2.1.5 and 460.2.8.2.1.6.

Replace standard spec 460.2.8.2.1.7 Corrective Action with the following:

460.2.8.2.1.7 Corrective Action

(1) Material must conform to the following action and acceptance limits based on individual QC and QV test results (tolerances relative to the JMF used on the PWL Test Strip):

ITEM	ACTION LIMITS	ACCEPTANCE LIMITS
Percent passing given sieve:		
37.5-mm	+/- 8.0	
25.0-mm	+/- 8.0	
19.0-mm	+/- 7.5	
12.5-mm	+/- 7.5	
9.5-mm	+/- 7.5	
2.36-mm	+/- 7.0	
75-µm	+/- 3.0	
AC in percent	-0.3	-0.5
Va		- 1.5 & +2.0
VMA in percent[1]	- 0.5	-1.0

[1] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

(2) QV samples will be tested for Gmm, Gmb, and AC. Air voids and VMA will then be calculated using these test results.

(3) Notify the engineer if any individual test result falls outside the action limits, investigate the cause and take corrective action to return to within action limits. If two consecutive test results fall outside the action limits, stop production. Production may not resume until approved by the engineer. Additional QV samples may be collected upon resuming production, at the discretion of the engineer.

(4) For any additional non-random tests outside the random number testing conducted for volumetrics, the data collected will not be entered into PWL calculations. Additional QV tests must meet acceptance limits or be subject to production stop. If the department's non-random test does not conform to the acceptance limits, the retained sample will be tested by the BTS lab. If the BTS results also do not meet the acceptance limits, the material will be considered unacceptable as described in (5) below.

(5) Remove and replace unacceptable material at no additional expense to the department. Unacceptable material is defined as any individual QC or QV tests results outside the acceptance limits or a PWL value < 50. For AC in percent, unacceptable material is defined as any individual QV test result outside of the acceptance limit. The engineer may allow such material to remain in place with a price reduction. The department will pay for such HMA Pavement allowed to remain in place at 50 percent of the contract unit price.

Replace standard spec 460.2.8.3.1.2 Personnel Requirements with the following:

460.2.8.3.1.2 Personnel Requirements

(1) The department will provide at least one HTCP-certified Transportation Materials Sampling (TMS) Technician, to observe QV sampling of HMA mixtures.

(2) Under departmental observation, a contractor TMS technician shall collect and split samples.

(3) A department HTCP-certified Hot Mix Asphalt, Technician I, Production Tester (HMA-IPT) technician will ensure that all sampling is performed correctly and conduct testing, analyze test results, and report resulting data.

(4) The department will make an organizational chart available to the contractor before mixture production begins. The organizational chart will include names, telephone numbers, and current certifications of all QV testing personnel. The department will update the chart with appropriate changes, as they become effective.

Replace standard spec 460.2.8.3.1.4 Department Verification Testing Requirements with the following:

460.2.8.3.1.4 Department Verification Testing Requirements

(1) HTCP-certified department personnel will obtain QV random samples by directly supervising HTCP-certified contractor personnel sampling from trucks at the plant. Sample size must be adequate to run the appropriate required tests in addition to one set of duplicate tests that may be required for dispute resolution (i.e., retained). This requires sample sizes which yield four splits for all random sampling per sublot. All QV samples shall furnish the following: QC, QV, Retained, and Extra. The department will observe the splitting and take possession of the QV, Retained, and Extra split samples intended for QV testing. The department will take possession of retained samples accumulated to date each day QV samples are collected. The department will retain samples until surpassing the analysis window of up to 5 lots, as defined in standard spec 460.2.8.3.1.7(2) of this special provision. Additional sampling details are found in Appendix A.

(2) The department will verify product quality using the test methods specified here in standard spec 460.2.8.3.1.4(3). The department will identify test methods before construction starts and use only those methods during production of that material unless the engineer and contractor mutually agree otherwise.

(3) The department will test the QV split sample using the test methods identified below at the frequency indicated. The Extra split sample will be tested only when the Gmm and/or Gmb replicate tolerances are exceeded according to WTM T166 section 13.1.4 and WTM T209 section 14.1.1. When testing the Extra split sample, only the results from the test from which the tolerances were exceeded may replace the results from the QV split sample. The Rule of Retained according to CMM 836.1.2 applies. In the event that both the department and contractor's replicate tolerances are exceeded, perform dispute resolution according to 460.2.8.3.1.7(2).

- Bulk specific gravity (Gmb) of the compacted mixture according to WTM T166.
- Maximum specific gravity (Gmm) according to WTM T209.
- Air voids (Va) by calculation according to WTM T269.
- Voids in Mineral Aggregate (VMA) by calculation according to WTM R35 section 9.2.
- Asphalt Content (AC) in percent determined by ignition oven method according to WTM T308 and conforming to WTP H-003, chemical extraction according to AASHTO T 164 Method A or B, or automated extraction according to WTM D8159.

(4) The department will randomly test each design mixture at the minimum frequency of one test for each lot.

Delete standard spec 460.2.8.3.1.6.

Replace standard spec 460.2.8.3.1.7 Dispute Resolution with the following:

460.2.8.3.1.7 Data Analysis for Volumetrics

(1) Analysis of test data for pay determination will be contingent upon QC and QV test results. Statistical analysis will be conducted on Gmm and Gmb test results for calculation of Va. If either Gmm or Gmb analysis results in non-comparable data as described in 460.2.8.3.1.7(2), subsequent testing will be performed for both parameters as detailed in the following paragraph.

(2) The engineer, upon completion of the first 3 lots, will compare the variances (F-test) and the means (t-test) of the QV test results with the QC test results. Additional comparisons incorporating the first 3 lots of data will be performed following completion of the 4th and 5th lots (i.e., lots 1-3, 1-4, and 1-5). A rolling window of 5 lots will be used to conduct F & t comparison for the remainder of the contract (i.e., lots 2-6, then lots 3-7, etc.), reporting comparison results for each individual lot. Analysis will use a set alpha value of 0.025. If the F- and t-tests report comparable data, the QC and QV data sets are determined to be statistically similar and QC data will be used to calculate the Va used in PWL and pay adjustment calculations. If the F- and t-tests result in non-comparable data, proceed to the *dispute resolution* steps found below. Note: if both QC and QV Va PWL result in a pay adjustment of 102% or greater, dispute resolution testing will not be conducted. Dispute resolution via further investigation is as follows:

[1] The Retained portion of the split from the lot in the analysis window with a QV test result furthest from the QV mean (not necessarily the sublot identifying that variances or means do not compare) will be referee tested for Gmm, Gmb, and Asphalt Content by the bureau's AASHTO accredited laboratory and certified personnel. All previous lots within the analysis window are subject to referee testing and regional lab testing as deemed necessary. Referee test results will replace the QV data of the sublot(s).

[2] Statistical analysis will be conducted with referee test results replacing QV results.

i. If the F- and t-tests indicate variances and means compare, no further testing is required for the lot and QC data will be used for PWL and pay factor/adjustment calculations.

ii. If the F- and t-tests indicate non-comparable variances or means, the Retained portion of the random QC sample will be tested for Gmm, Gmb, and Asphalt Content by the department’s regional lab for the remaining 4 sublots of the lot which the F- and t-tests indicate non-comparable datasets. The department’s regional lab and the referee test results will be used for PWL and pay factor/adjustment calculations. Upon the second instance of non-comparable variance or means and for every instance thereafter, the department will assess a pay reduction for the additional testing of the remaining 4 sublots at $2,000/lot under the HMA Regional Lab Testing administrative item.

[3] The contractor may choose to dispute the regional test results on a lot basis within 7 days after receiving the results from the region. In this event, the retained portion of each sublot will be referee tested by the department's AASHTO accredited laboratory and certified personnel. The referee Gmm and Gmb test results will supersede the regional lab results for the disputed lot.

i. If referee testing results in an increased calculated pay factor, the department will pay for the cost of the additional referee testing.

ii. If referee testing of a disputed lot results in an equal or lower calculated pay factor, the department will assess a pay reduction for the additional referee testing at $2,000/lot under the Referee Testing administrative item.

(3) The department will notify the contractor of the referee test results within 3 working days after receipt of the samples by the department's AASHTO accredited laboratory. The intent is to provide referee test results within 7 calendar days from completion of the lot.

(4) The department will determine mixture conformance and acceptability by analyzing referee test results, reviewing mixture data, and inspecting the completed pavement according to the standard spec, this special provision, and accompanying Appendix A.

(5) Unacceptable material (i.e., resulting in a PWL value less than 50 or individual QC or QV test results not meeting the Acceptance Requirements of 460.2.8.2.1.7 as modified herein) will be referee tested by the bureau's AASHTO accredited laboratory and certified personnel and those test results used for analysis. Such material may be subject to remove and replace, at the discretion of the engineer. If the engineer allows the material to remain in place, it will be paid at 50% of the HMA Pavement contract unit price. Replacement or pay adjustment will be conducted on a sublot basis. If an entire PWL sublot is removed and replaced, the test results of the newly placed material will replace the original data for the sublot. Any remove and replace shall be performed at no additional cost to the department. Testing of replaced material must include a minimum of one QV result. [Note: If the removed and replaced material does not result in replacement of original QV data, an additional QV test will be conducted and under such circumstances will be entered into the HMA PWL Production spreadsheet for data analysis and pay determination.] The quantity of material paid at 50% the contract unit price will be deducted from PWL pay adjustments, along with accompanying data of this material.

Delete standard spec 460.2.8.3.1.8 Corrective Action.

C Construction

Replace standard spec 460.3.3.2 Pavement Density Determination with the following:

460.3.3.2 Pavement Density Determination

(1) The engineer will determine the target maximum density using department procedures described in WTM T355 and CMM 815. The engineer will determine density as soon as practicable after compaction and before placement of subsequent layers or before opening to traffic.

(2) Do not re-roll compacted mixtures with deficient density test results. Do not operate continuously below the specified minimum density. Stop production, identify the source of the problem, and make corrections to produce work meeting the specification requirements.

(3) A lot is defined as 7,500 lane feet with sublots of 1,500 lane feet (excluding shoulder, even if paved integrally) and placed within a single layer for each location and target maximum density category indicated in table 460-3. Complete three tests randomly per sublot and the department will randomly conduct one QV test per sublot. A partial quantity less than 750 lane feet will be included with the previous sublot. Partial lots with less than three sublots will be included in the previous lot for data analysis/acceptance and pay, by the engineer. If density lots/sublots are determined prior to construction of the test strip, any random locations within the test strip shall be omitted. Exclusions such as shoulders and appurtenances shall be tested and recorded according to WTM T355 and CMM 815. However, all acceptance testing of shoulders and appurtenances will be conducted by the department, and average lot (daily) densities must conform to standard spec Table 460-3 or else be subject to disincentives according to 460.5.2.2(5) herein. No density incentive will be applied to shoulders or appurtenances. Offsets will not be applied to nuclear density gauge readings for shoulders or appurtenances. Unacceptable shoulder material will be handled according to standard spec 460.3.3.1 and CMM 815.11.

(4) The three QC locations per sublot represent the outside, middle, and inside of the paving lane. The QC density testing procedures are detailed in Appendix A.

(5) QV nuclear testing will consist of one randomly selected location per sublot. The QV density testing procedures will be the same as the QC procedure at each testing location and are also detailed in Appendix A.

(6) An HTCP-certified nuclear density technician (NUCDENSITYTEC-I) shall identify random locations and perform the testing for both the contractor and department. The responsible certified technician shall ensure that sample location and testing is performed correctly, analyze test results, and provide density results to the contractor weekly, or at the completion of each lot.

(7) For any additional tests outside the random number testing conducted for density, the data collected will not be entered into PWL calculations. However, additional QV testing must meet the tolerances for material conformance as specified in the standard specification and this special provision. If additional density data identifies unacceptable material, proceed as specified in CMM 815.11.

Replace standard spec 460.3.3.3 Waiving Density Testing with Acceptance of Density Data with the following:

460.3.3.3 Analysis of Density Data

(1) Analysis of test data for pay determination will be contingent upon test results from both the contractor (QC) and the department (QV).

(2) As random density locations are paved, the data will be recorded in the HMA PWL Production Spreadsheet for analysis in chronological order. The engineer, upon completion of the first 3 lots, will compare the variances (F-test) and the means (t-test) of the QV test results with the QC test results. A rolling window of 3 lots will be used to conduct F & t comparison for the remainder of the contract (i.e., lots 2-4, then lots 3-5, etc.), reporting comparison results for each individual lot. Analysis will use a set alpha value of 0.025.

   i. If the F- and t-tests indicate variances and means compare, the QC and QV data sets are determined to be statistically similar and QC data will be used for PWL and pay adjustment calculations.

   ii. If the F- and t-tests indicate variances or means do not compare, the QV data will be used for subsequent calculations.

(3) The department will determine mixture density conformance and acceptability by analyzing test results, reviewing mixture data, and inspecting the completed pavement according to standard spec, this special provision, and accompanying Appendix A.

(4) Density resulting in a PWL value less than 50 or not meeting the requirements of 460.3.3.1 (any individual density test result falling more than 3.0 percent below the minimum required target maximum density as specified in standard spec Table 460-3) is unacceptable and may be subject to remove and replace at no additional cost to the department, at the discretion of the engineer.

   i. Replacement may be conducted on a sublot basis. If an entire PWL sublot is removed and replaced, the test results of the newly placed material will replace the original data for the sublot.

   ii. Testing of replaced material must include a minimum of one QV result. [Note: If the removed and replaced material does not result in replacement of original QV data, an additional QV test must be conducted and under such circumstances will be entered into the data analysis and pay determination.]

   iii. If the engineer allows such material to remain in place, it will be paid for at 50% of the HMA Pavement contract unit price. The extent of unacceptable material will be addressed as specified in CMM 815.11. The quantity of material paid at 50% the contract unit price will be deducted from PWL pay adjustments, along with accompanying data of this material.

D Measurement

The department will measure the HMA Pavement bid items acceptably completed by the ton, as specified in standard spec 450.4 and as follows in standard spec 460.5, as modified in this special provision.

E Payment

Replace standard spec 460.5.2 HMA Pavement with the following:

460.5.2 HMA Pavement

460.5.2.1 General

(1) Payment for HMA Pavement Type LT, MT, and HT mixes is full compensation for providing HMA mixture designs; for preparing foundation; for furnishing, preparing, hauling, mixing, placing, and compacting mixture; for HMA PWL QMP testing and aggregate source testing; for warm mix asphalt additives or processes; for stabilizer, hydrated lime and liquid antistripping agent, if required; and for all materials including asphaltic materials.

(2) If provided for in the plan quantities, the department will pay for a leveling layer, placed to correct irregularities in an existing paved surface before overlaying, under the pertinent paving bid item. Absent a plan quantity, the department will pay for a leveling layer as extra work.

460.5.2.2 Calculation of Pay Adjustment for HMA Pavement using PWL

(1) Pay adjustments will be calculated using 65 dollars per ton of HMA pavement. The HMA PWL Production Spreadsheet, including data, will be made available to the contractor by the department as soon as practicable upon completion of each lot. The department will pay for measured quantities of mix based on this price multiplied by the following pay adjustment calculated according to the HMA PWL Production Spreadsheet:

PAY FACTOR FOR HMA PAVEMENT AIR VOIDS & DENSITY

PERCENT WITHIN LIMITS (PWL)	*PAYMENT FACTOR, PF (percent of $65/ton)*
≥ 90 to 100	PF = ((PWL – 90) * 0.4) + 100
≥ 50 to < 90	(PWL * 0.5) + 55
<50	50%[1]

where PF is calculated per air voids and density, denoted $PF_{air\ voids}$ & $PF_{density}$.

[1] Any material resulting in PWL value less than 50 shall be removed and replaced unless the engineer allows such material to remain in place. In the event the material remains in place, it will be paid at 50% of the contract unit price of HMA pavement.

(2) For air voids, PWL values will be calculated using lower and upper specification limits of 2.0 and 4.3 percent, respectively. Lower specification limits for density shall be according to standard spec Table 460-3.

(3) Pay adjustment will be determined on a lot basis and will be computed as shown in the following equation:

Pay Adjustment = (PF-100)/100 x (WP) x (tonnage) x ($65/ton)*

*Note: If Pay Factor = 50%, the contract unit price will be used in lieu of $65/ton and the weighted percentage (WP) will equal 1.0.

The following weighted percentage (WP) values will be used for the corresponding parameter:

Parameter	WP
Air Voids	0.5
Density	0.5

(4) Individual Pay Factors for each air voids ($PF_{air\ voids}$) and density ($PF_{density}$) will be determined. $PF_{air\ voids}$ will be multiplied by the total tonnage placed (i.e., from truck tickets), and $PF_{density}$ will be multiplied by the calculated tonnage used to pave the mainline only (i.e., travel lane excluding shoulder) as determined according to Appendix A.

(5) Pay adjustment for shoulders and appurtenances accepted by department testing will be determined on a lot basis. If the lot density is less than the specified minimum in table 460-3, the department will reduce pay based on the contract unit price for the HMA pavement bid item for that lot as follows:

DISINCENTIVE PAY REDUCTION FOR HMA PAVEMENT DENSITY

PERCENT LOT DENSITY BELOW SPECIFIED MINIMUM	PAYMENT FACTOR (percent of contract price)
From 0.5 to 1.0 inclusive	98
From 1.1 to 1.5 inclusive	95
From 1.6 to 2.0 inclusive	91
From 2.1 to 2.5 inclusive	85
From 2.6 to 3.0 inclusive	70
More than 3.0[1]	___

[1] Remove and replace the lot with a mixture at the specified density. When acceptably replaced, the department will pay for the replaced work at the contract unit price. Alternatively, the engineer may allow the nonconforming material to remain in place with a 50 percent payment factor.

(6) The department will pay incentive for air voids and density under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
460.2010	Incentive Air Voids HMA Pavement	DOL

The department will administer disincentives under the Disincentive Density HMA Pavement and the Disincentive Air Voids HMA Pavement administrative items.

The department will administer a disincentive under the Disincentive HMA Binder Content administrative item for each individual QV test result indicating asphalt binder content below the Action Limit in 460.2.8.2.1.7 presented herein. The department will adjust pay per sublot of mix at 65 dollars per ton of HMA pavement multiplied by the following pay adjustment calculated according to the HMA PWL Production Spreadsheet:

AC Binder Relative to JMF	Pay Adjustment / Sublot
-0.4% to -0.5%	75%[1]
More than -0.5%	50%[1] [2]

[1] Any material resulting in an asphalt binder content more than 0.3% below the JMF AC content will be referee tested by the department's AASHTO accredited laboratory and HTCP certified personnel using automated extraction according to automated extraction according to WTM D8159.

[2] Any material resulting in an asphalt binder content more than 0.5% below the JMF AC content shall be removed and replaced unless the engineer allows such material to remain in place. In the event the material remains in place, it will be paid at 50% of the contract unit price of HMA pavement.

Note: PWL value determination is further detailed in the PWL Production Spreadsheet Instructions located in the *Project Info & Instructions* tab of the HMA PWL Production spreadsheet.

stp-460-050 (20240105)

61. Material Transfer Vehicle, Item 460.9000.S.

A Description

This special provision describes providing Material Transfer Vehicles (MTV) and operators for use during SMA upper layer paving operations of the travel lanes as shown in the plan or as directed by the engineer.

B Materials

Furnish a self-propelled MTV with the ability to remix, maintain constant temperature, and continually feed the paver hopper. MTV storage capacity shall be adequate to provide continuous forward movement of the paver. Coordinate paver speed to match the delivery of material and capacity of the MTV to minimize stopping of the paver.

C Construction

Ensure that an operator stays with the MTV at all times during moving operations. Keep the paver's hopper full at all times and the MTV's hopper filled such that the conveying augers are never exposed to avoid segregation of the material. Placement of SMA upper layer pavement in the travel lanes will not be allowed without the MTV. Tie ins of intersections, shoulders paved separately, and other non-travel lane areas will not require the use of the MTV.

D Measurement

The department will measure Material Transfer Vehicle once for the contract, acceptably completed, regardless the number of vehicles in use.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
460.9000.S	Material Transfer Vehicle	EACH

Payment is full compensation for furnishing all material transfer vehicles and operators.

stp-460-900 (20230113)

62. Concrete Maturity Testing.

A Description

This special provision requires using concrete maturity testing to determine strength for project control of concrete pavement, falsework removal, and structural concrete under the designated standard specs as follows:

Duration of the curing period 415.3.12
Duration of the cold weather protection period 415.3.13
Opening to service 415.3.15
Removing falsework 502.3.4.2
Duration of the required curing period 502.3.8
Duration of the cold weather protection period 502.3.9
Opening to service 502.3.10.1

The requirement for determining strength by the concrete maturity testing method supersedes all provisions for strength determination by other methods or provisions based on equivalent days within those designated subsections. The concrete maturity testing requirement also applies to all other provisions referencing strength determination under these designated subsections.

B Materials

Provide a maturity testing system that uses data-encrypted sensor devices permanently embedded in the field-placed concrete. Data-encrypted sensors have a chip that records both temperature and time information that can be downloaded to a reading device not permanently attached to those sensors.

Provide the department with a maturity reading device for each maturity testing system used on the project. Devices provided for the department use will become department property under the contract.

C Construction

Perform concrete maturity testing conforming to standard specification 502.3.10.1.3.3. Develop a strength/maturity relationship for each concrete mix design used under the contract. Base that relationship on strength results of cylinders from pavement, appurtenant construction, ancillary concrete, or structural masonry units incorporated into the work and using those same mixes.

D (Vacant)

E Payment

No additional payment will be made by the department for maturity testing.

sef-502-005 (20170310)

63. Crack Sealing Epoxy, Item 502.0717.S.

A Description

This special provision describes sealing transverse and longitudinal cracks in bridge decks.

B Materials

Provide a penetrating sealant that is listed on the department's approved product listing, "Low Viscosity Crack Sealers".

C Construction

Clean the cracks to be sealed by the use of high pressure air after Cleaning Deck and Preparation Deck are completed.

Pour the epoxy sealant into the cracks to be sealed after the deck preparation has been completed and before the overlay is placed. Place the sealant in as narrow a band as possible so that the bond of the new concrete overlay to the existing concrete is not impaired.

At no expense to the department, clean all spills and clean all areas of too wide a band of sealant before the overlay is placed.

D Measurement

The department will measure Crack Sealing Epoxy in length by the linear foot of cracks, sealed 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
502.0717.S	Crack Sealing Epoxy	LF

Payment is full compensation for furnishing and placing the epoxy sealant, including any required cleaning.

stp-502-015 (20090901)

64. Sawing Pavement Deck Preparation Areas, Item 509.0310.S.

A Description

This special provision describes sawing around deteriorated areas requiring deck repairs under the Preparation Decks bid items on decks receiving asphalt or polymer overlays and for deck repairs that will not receive an overlay.

B (Vacant)

C Construction

The department will sound and mark areas of deteriorated concrete that require deck preparation. The engineer may identify and mark additional areas as the work is being performed.

Wet cut a minimum of 1 inch deep and at least 2 inches outside of the marked areas. Bound each marked area by providing cuts aligned parallel and perpendicular to the deck centerline.

Remove sawing sludge after completing each area. Do not allow sludge or resulting residue to enter a live lane of traffic, storm sewer, stream, lake, reservoir, marsh, or wetland. Dispose of sludge at an acceptable material disposal site located off the project limits or, if the engineer allows, within the project limits.

D Measurement

The department will measure Sawing Pavement Deck Preparation Areas by the linear foot, acceptably completed, measured as the total linear feet of bounding cuts.

The department will not measure for payment over-cuts or cuts made beyond what is required to bound engineer-marked deterioration limits.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.0310.S	Sawing Pavement Deck Preparation Areas	LF

Payment is full compensation for making all saw cuts; and for debris disposal.

stp-509-070 (20180628)

65. Concrete Masonry Deck Repair, Item 509.2100.S.

A Description

This special provision describes providing concrete masonry on the sawed deck preparation areas of the concrete bridge deck and in full depth deck, curb, and joint repair areas. Conform to standard spec 502 and standard spec 509.

B Materials

B.1 Neat Cement

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.

B.2 Concrete

Furnish grade C or E concrete conforming to standard spec 501 for deck preparation, full-depth deck repair, curb repair and joint repair areas except as follows:

1. The contractor may increase slump of grade E concrete to 3 inches.
2. The contractor may use ready-mixed concrete.

Provide QMP for class II ancillary concrete as specified in standard spec 716.

C Construction

C.1 Neat Cement

Immediately before placing the concrete deck patching, coat the prepared surfaces with a neat cement mixture. Ensure the prepared concrete surfaces are moist without any standing water before coating with the neat cement mixture. Brush the neat cement mixture over the prepared concrete surfaces to ensure that all parts receive an even coating, and do not allow excess neat cement to collect in pockets. Apply the neat cement at a rate that ensures the cement does not dry out before being covered with the new concrete.

C.2 Placing Concrete

Place concrete conforming to standard spec 509. As determined by the engineer, consolidate smaller areas by internal vibration, strike them off, and finish the areas with hand floats to produce plane surfaces that conform to the grade and elevation of the adjoining surfaces. Give all deck patching areas a final hand float finish.

C.3 Curing Concrete

Cure the concrete masonry deck patching conforming to standard spec 502.2.6(1).

D Measurement

The department will measure Concrete Masonry Deck Repair by the cubic yard, acceptably completed.

The department will measure concrete used in deck preparation areas and in full depth deck, curb, and joint repair as part of the Concrete Masonry Deck Repair bid item.

The department will not measure wasted concrete.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.2100.S	Concrete Masonry Deck Repair	CY

Payment is full compensation for furnishing, hauling, preparing, placing, finishing, curing, and protecting all materials.

stp-509-060 (20210708)

66. 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 manufacture'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:

1. Ambient air temperature is below 50 F or above 100 F.
2. Deck temperature is below 50 F.
3. 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 according to ASTM D4263.
4. Rain is forecasted during the minimum curing periods listed under C.5.
5. Materials component temperatures below 65 F or above 99 F.
6. Concrete deck age is less than 28 days.
7. The deck temperature exceeds 100 F.
8. 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 according to 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:

	Average temperature of deck, polymer and aggregate components in degrees F							
Course	**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)

67. Removing Polymer Overlay B-40-356, Item 509.9015.S.0006; Removing Polymer Overlay B-40-357, Item 509.9015.S.0007.

A Description

This special provision describes removing the polymer overlay. Perform work conforming to standard spec 204.

B (Vacant)

C Construction

Remove the overlay by scraping, grinding, milling, or other approved method without damaging the underlying concrete. Submit removal procedures to the engineer for approval before beginning. Do not remove more than 1/4"of the existing concrete surface. Leave a uniform textured finish over the entire concrete surface.

D Measurement

The department will measure Removing Polymer Overlay B-40-356, B-40-357 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
509.9015.S.0006	Removing Polymer Overlay B-40-356	SY
509.9015.S.0007	Removing Polymer Overlay B-40-357	SY

Payment for is full compensation for removing the polymer; and for properly disposing of all materials.

stp-509-015 (20210113)

68. Epoxy Crack Sealing, Item 509.9020.S.

A Description

This special provision describes sealing vertical cracks in abutments as the plan details show.

B Materials

Furnish a penetrating epoxy sealant manufactured by Sika, Adhesive Engineering, Technical Sealants, Dayton Superior, or equal. Before using, obtain the engineer's approval for the epoxy system which is proposed to seal the cracks.

C Construction

Before sealing, clean the cracks by chipping and by using high-pressure air.

After all of the cleaning is completed, inject epoxy sealant into the cracks to be sealed. Seal the cracks using the penetrating epoxy sealant as recommended by the sealant manufacturer.

D Measurement

The department will measure Epoxy Crack Sealing in length by the linear foot of crack, acceptably sealed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.9020.S	Epoxy Crack Sealing	LF

Payment is full compensation for cleaning the cracks; and for furnishing and placing the epoxy sealant.

stp-509-020 (20100709)

69. Structure Repainting General.

A General

A.1 Inspection

On all structures in this contract, notify the engineer of any missing or broken bolts or nuts, any missing or broken rivets, or of any cracks or flaws in the steel members while cleaning or painting.

A.2 Date Painted

At the completion of all painting work, stencil in black paint or contrasting color paint the date of painting the bridge. The numbers shall be 3 inches (75 mm) in height and shall show the month and year in which the painting was completed: e.g., 11-95 (November 1995). On each bridge painted, stencil the date at two locations. On truss bridges, stencil the date on the cover plates of end posts near and above the top of the railings at the oncoming traffic end. On steel girder bridges, stencil the date on the inside of the outside stringers at the abutments. The date on grade separation bridges shall be readable when going under the structure or at some equally visible surface near the ends of the bridge, as designated by the engineer.

A.3 Graffiti Removal

Remove any graffiti on concrete abutments, piers, pier caps, parapet railings, slope paving or any other location at the direction of the engineer. Use a brush sandblast to remove graffiti.

The above work will not be measured and paid for separately but will be considered incidental to other items in the contract.

B (Vacant)

C Construction

C.1 Repainting Methods

Do not perform blasting, cleaning and painting on days of high winds. Prevailing winds in excess of 15 mph (25 km/hr) shall be considered high winds.

Place the final field coat of paint on the exterior of the exterior beams as a continuous painting operation. Stop at splices, vertical stiffeners or other appropriate locations so that lap marks are not evident or noticeable.

Completely clean and remove spent abrasive and other waste materials resulting from the contractor's operation from bridge deck surfaces, gutter lines, drains, curbs, bridge seats, pier caps, slope paving, roadway below, and all structural members and assemblies.

C.2 Inspection

Add the following to standard spec 105.9:

Furnish, erect and move scaffolding and other equipment to allow the inspector to closely observe all affected surfaces. The scaffolding, with appropriate safety devices, shall meet the approval of the engineer.

stp-517-005 (20150630)

70. Preparation and Coating of Top Flanges B-40-356, Item 517.0901.S.0006; Preparation and Coating of Top Flanges B-40-357, Item 517.0901.S.0007; Preparation and Coating of Top Flanges B-40-358, Item 517.0901.S.0008; Preparation and Coating of Top Flanges B-40-359, Item 517.0901.S.0009; Preparation and Coating of Top Flanges B-40-363, Item 517.0901.S.0104; Preparation and Coating of Top Flanges B-40-364, Item 517.0901.S.0105.

A Description

This special provision describes thoroughly cleaning and coating the top surface and edges of the top flanges, removing loose paint, rust, mill scale, dirt, oil, grease, or other foreign substances until the specified finish is obtained.

B (Vacant)

C Construction

For top flanges and edges that have no paint on them and according to the department’s Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, clean the top surface and edges of the top flanges and paint them with one coat of an approved zinc rich primer. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

For top flanges and edges that have paint on them and according to the department’s Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, clean all areas of rust and loose paint on the top surface and edges of the top flanges. Wash the top surface and edges of the top flanges and paint them with one coat of an approved zinc-rich primer according to paint manufacture’s recommendations. If flash rusting occurs before the application of the primer, stop painting application, remove the flash rusting and paint cleaned surface. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

Where plans call for the cleaning of other painted structural steel including hanger assemblies, bearings, field splices, and connections, clean areas of loose paint and rust according to the department’s Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, or and according to paint manufacture’s cleaning recommendations. Sound paint need not be removed with the exception of an area 12 inch on either side of hanger assembly centerlines. Clean this area to base metal according to the paint manufacture’s cleaning recommendations and paint them one coat of an approved zinc-rich primer according to paint manufacture’s recommendations. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

For areas of exposed steel members that are to be imbedded in new concrete and according to the department's Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, thoroughly clean the surface area of exposed steel members that are to be imbedded in the new concrete and solvent wash and paint one coat of an approved zinc rich primer according to paint manufacture's recommendations to these areas. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

According to the approved project specific hazardous material containment plan, furnish and erect tarpaulins or other materials to collect all of the spent paint containing material resulting from blasting or hand and power tool cleaning and coating. Minimize dust during all clean-up activities. Collect and store waste material at the end of each work day or more often if needed. Store waste materials in the hazardous waste containers provided. Lock and secure all waste containers at the end of each work day. Cover containers at all times except when adding or removing waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain or exposed to standing water. Transportation and disposal of such waste material will be the responsibility of the department.

Damage to existing painted surfaces as a result of construction operations, shall be restored to the approval of the engineer at the contractor's expense.

D Measurement

The department will measure Preparation and Coating of Top Flanges (Structure #) as a single unit for each structure, 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
517.0901.S.0006	Preparation and Coating of Top Flanges B-40-356	EACH
517.0901.S.0007	Preparation and Coating of Top Flanges B-40-357	EACH
517.0901.S.0008	Preparation and Coating of Top Flanges B-40-358	EACH
517.0901.S.0009	Preparation and Coating of Top Flanges B-40-359	EACH
517.0901.S.0104	Preparation and Coating of Top Flanges B-40-363	EACH
517.0901.S.0105	Preparation and Coating of Top Flanges B-40-364	EACH

Payment is full compensation for preparing and cleaning the designated surfaces; and for furnishing and applying the coating.

stp-517-010 (20210708)

71. Structure Repainting Recycled Abrasive B-40-356, Item 517.1801.S.0006; Structure Repainting Recycled Abrasive B-40-357, Item 517.1801.S.0007; Structure Repainting Recycled Abrasive B-40-360, Item 517.1801.S.0103; Structure Repainting Recycled Abrasive B-40-363, Item 517.1801.S.0104; Structure Repainting Recycled Abrasive B-40-364, Item 517.1801.S.0105.

A Description

This special provision describes surface preparation and painting of the metal surfaces according to the manufacturer's recommendations as modified in this special provision.

A.1 Areas to be Cleaned and Painted

All structural metal surfaces of:

1. Structure B-40-356 12483 SF.
2. Structure B-40-357 13217 SF.
3. Structure B-40-360 3900 SF.
4. Structure B-40-363 12623 SF.
5. Structure B-40-364 11928 SF.

Areas are approximate and given for informational purposes only.

B Materials

B.1 Coating System

Furnish a complete coating system from the department's approved list for "Structure Repainting Recycle Abrasive Structure". The color for the finish coating material shall match the color number the plans show according to Federal Standard Number 595. Supply the engineer with the product data sheets for approval before any coating is applied. The product data sheets shall indicate the mixing and thinning directions, the recommended spray nozzles and pressures, and the minimum drying time between coats.

The color of the primer must be such that a definite contrast between it and the color of the blasted steel is readily apparent. There shall be a color contrast between all subsequent coats for the paint system selected. Submit color samples of the primer and all coats to the engineer for approval before any application of paint.

C Construction

C.1 Surface Preparation

Before blast cleaning, solvent clean all surfaces to be coated according to SSPC-SP1.

All metal surfaces must be blast cleaned according to SSPC-SP10 and verified before painting.

Upon completion of surface preparation, test representative surfaces, which were previously rusted (i.e., pitted steel) for the presence of residual chloride. Perform Surface Contamination Tests (SCAT) according to the manufacturer's recommendations. The tests must be witnessed by the engineer. If chlorides are detected at levels greater than $7ug/cm^2$, continue to clean the affected areas until results are below the specified limit. Submit anticipated testing frequencies and chloride remediation methods to the engineer for review and approval.

Apply the prime coat the same day that the metal surfaces receive the No. 10 blast or re-blast before application. Cleaned surfaces shall be of the specified condition immediately before paint application. If rust bloom occurs before applying the primer, stop the painting operation in the area of the rust bloom and re-blast and clean the area to SSPC SP-10 before applying the primer.

The steel grit and any associated equipment brought to the site and used for blast cleaning shall be clean. Remove immediately dirty grit or equipment brought to the site at no expense to the department. Furnish an abrasive that has a gradation such that it will produce a uniform surface profile between 1 to 3 mils on the steel surface, as measured according to ISO 8503-5.

The abrasive blasting and recovery system shall be a completely integrated self-contained system for abrasive blasting and recovery. It shall be an open blast and recovery system that will allow no emissions from the recovery operation. The recovery equipment shall be such that the amount of contaminants in the clean recycled steel grit shall be less than 1 percent by weight as per SSPC AB-2.

Remove by grinding all fins, tears, slivers, and burred or sharp edges that are present on any steel member, or that appear during the blasting operation, and re-blast the area to give a 1 to 3 mils surface profile.

Remove all spent material and paint residue from steel surfaces with a good commercial grade vacuum cleaner equipped with a brush-type cleaning tool, and test cleanliness according to ASTM D4285. The airline used for surface preparation shall have an in-line water trap and the air shall be free of oil and water as it leaves the airline.

Take care to protect freshly coated surfaces from subsequent blast cleaning operations. Thoroughly wire brush damaged primed surfaces with a non-rusting tool, or if visible rust occurs, re-blast to a near white condition. Clean and re-prime the brushed or blast cleaned surfaces according to this specification.

C.2 Coating Application

Apply paint according to the manufacturer's recommendations in a neat workmanlike manner. Paint application shall normally be by airless spray or inaccessible areas by brush, roller or other methods approved by the engineer.

The engineer may allow the use of conventional spray equipment after satisfactory demonstration by the contractor of the proper application technique and handling of that equipment.

Mix the paint or coatings according to the manufacturer's directions to a smooth lump-free consistency. Keep paint thoroughly mixed during the painting application.

After the inspector approves the entire cleaned surface to be coated, apply a prime coat uniformly to the entire surface. Either before or after applying the prime coat, brush or spray a stripe coat of primer on all plate edges, bolt heads, nuts, and washers. Apply succeeding coats as the product data sheet shows.

Remove all dry spray by vacuuming, wiping, or sanding if necessary.

If the application of the coating at the required thickness in one coat produces runs, bubbles, or sags; apply a "mist-coating" in multiple passes of the spray gun; separate the passes by several minutes. Where excessive coating thickness produces "mud-cracking", remove such coating back to soundly bonded coating and re-coat the area to the required thickness.

The resultant paint film shall be smooth and uniform, without skips or areas of excessive paint according to SSPC PA1.

The coating is supplied for normal use without thinning. If in cool weather it is necessary to thin the coating for proper application, thin according to the manufacturer's recommendations.

During surface preparation and coating application the ambient and steel temperature shall be between 39 degrees F and 100 degrees F. The steel temperature shall be at least 5 degrees F above the dew point temperature. (This requires the steel to be dry and free of any condensation or ice regardless of the actual temperature of the steel.) The relative humidity shall not exceed 85%. The manufacturer's ambient condition requirements must be followed if they are more stringent.

Paint thickness shall be within the requirements for a three coat paint system listed in the department's approved list for Structure Repainting Recycle Abrasive Structure and the paint system being used.

Time to recoat shall be according to the manufacturer's recommendations.

The dry film thickness will be determined by use of a magnetic film thickness gage. The gage shall be calibrated for dry film thickness measurement according to SSPC-PA 2. Dry film thickness in each area measured will be based on an average of three gage readings, after calibration of the gage to account for surface profile of the bare steel as a result of surface preparation.

D Measurement

The department will measure Structure Repainting Recycled Abrasive (Structure #) as a single unit for each structure, 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
517.1801.S.0006	Structure Repainting Recycled Abrasive B-40-356	EACH
517.1801.S.0007	Structure Repainting Recycled Abrasive B-40-357	EACH
517.1801.S.0103	Structure Repainting Recycled Abrasive B-40-360	EACH
517.1801.S.0104	Structure Repainting Recycled Abrasive B-40-363	EACH
517.1801.S.0105	Structure Repainting Recycled Abrasive B-40-364	EACH

Payment is full compensation for preparing and cleaning the designated surfaces; furnishing and applying the paint; and for providing the listed equipment.

stp-517-050 (20210708)

72. Structure Overcoating Cleaning and Priming B-40-358, Item 517.3001.S.0008; Structure Overcoating Cleaning and Priming B-40-359, Item 517.3001.S.0009.

A Description

This special provision describes cleaning and painting with two or three coats of paint the metal surfaces.

B Materials

Furnish an epoxy coating system from the department's APL for Paint- structure maintenance.

C Construction

C.1 Surface Preparation

Before overcoating or power tool cleaning, solvent clean all surfaces to be coated according to SSPC-SP1. A SSPC-SP 15 power Tool Cleaning according to Steel Structures Painting Council Specification 15 will be required on all metal surfaces to be painted with a three-coat system. Prime the same day, or re-clean before application, all metal surfaces receiving a No. 15 cleaning.

Remove all abrasive or paint residue from steel surfaces with a High Efficiency Particulate Abatement (HEPA-VAC) vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If the double blowing method is used, vacuum the exposed top surfaces of all structural steel, including flanges, longitudinal stiffeners, splices, plates, and hangers, after the double blowing operations are completed. The air line used for blowing the steel clean shall have an inline water trap and the air shall be free of oil and water as it leaves the air line.

Take care to protect freshly coated surfaces from subsequent cleaning operations. Thoroughly wire brush damaged primed surfaces with a non-rusting tool. Clean and re-prime the brushed surfaces within the time recommended by the manufacturer.

C.2 Painting

Paint by applying two or three coats of an approved coating system as specified herein to the surfaces as described in A.1 from the department's approved products list.

C.3 Coating Application

Apply paint in a neat, workmanlike manner. The resultant paint film shall be smooth and uniform without skips or areas of excessive paint. Apply coating according to the manufacturer's recommendations.

Before applying the prime coat, coat with primer all edges, rivet and bolt heads, nuts and washers by using either a brush, roller, or spray application.

Dry Film Thickness per coat shall be a minimum of 3-mil. The dry film thickness shall be determined by use of a magnetic film thickness gage. The gage shall be calibrated for dry film thickness measurement according to SSPC-PA 2.

During surface preparation and coating application, the ambient and steel temperature shall be between 39 and 100 degrees F. The steel temperature shall be at least 5 degrees F above the dew point temperature, and the relative humidity shall not exceed 85%.

D Measurement

The department will measure Structure Overcoating Cleaning and Priming (Structure #) as a single unit for each structure, 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
517.3001.S.0008	Structure Overcoating Cleaning and Priming B-40-358	EACH
517.3001.S.0009	Structure Overcoating Cleaning and Priming B-40-359	EACH

Payment is full compensation for preparing and cleaning the designated surfaces; and for furnishing and applying the paint.

stp-517-036 (20210708)

73. Containment and Collection of Waste Materials B-40-358, Item 517.4001.S.0008; Containment and Collection of Waste Materials B-40-359, Item 517.4001.S.0009.

A Description

This special provision describes furnishing and erecting tarpaulins to contain, collect and store the spent material from surface preparation of steel surfaces, collecting such spent material, and labeling and storing the spent material in waste containers.

B Materials

Provide 5-gallon lidded plastic containers for containing the spent material.

C Construction

Erect tarpaulins or other materials to collect all of the spent material from power tool cleaning. Consider and treat all spent material as hazardous waste.

Collect and store all waste material collected by this operation at the bridge site for disposal. Collect and store all waste materials at the end of each workday or more often if needed. Store materials in 5-gallon lidded plastic containers.

Label each container with the date the first waste was placed in the container and the words "Hazardous Waste – EPA Waste Code D008." Lock and secure all containers at the end of each workday. Keep the containers covered at all times except to add or remove waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain or exposed to standing water.

Collect the spent debris by vacuuming, shoveling, sweeping, or by channeling it directly to disposal containers. The enclosure shall be thoroughly cleaned at the end of each work day.

D Measurement

The department will measure Containment and Collection of Waste Materials (Structure) as a single unit for each structure, 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
517.4001.S.0008	Containment and Collection of Waste Materials B-40-358	EACH
517.4001.S.0009	Containment and Collection of Waste Materials B-40-359	EACH

Payment is full compensation for designing, erecting, operating, maintaining and disassembling the containment devices; collecting, labeling and storing spent materials in appropriate containers.

stp-517-037 (20230113)

74. Labeling and Disposal of Waste Material.

The EPA ID number for Structure pair B-40-356 and B-40-357 is WIR000179796.

The EPA ID number for Structure pair B-40-358 and B-40-359 is WIR000179804.

The EPA ID number for Structure pair B-40-363 and B-40-364 is WIR000179812.

The state has an exclusive mandatory use contract with a private waste management contractor to transport and dispose of hazardous waste.

The state's waste management contractor shall furnish and deliver appropriate hazardous waste containers and site-specific labels to each bridge site. The provided containers shall be placed at pre-selected drop-off and pick-up points at each bridge site, and these locations shall be determined at the preconstruction conference. The custody of the containers and labels shall be the responsibility of the painting contractor while they are at the job site.

Fill out form DT 1231, https://wisconsindot.gov/Documents/formdocs/dt1231.docx and email it to the waste management contractor, the region environmental coordinator, and the DOT Hazmat unit mailbox (dothazmatunit@dot.wi.gov) a minimum of 10 working days in advance to request container drop-off or pickup. Using the form, provide the waste management contractor with the project ID, structure number, EPA ID, and the agreed-upon location for container staging. Contact information for the waste management contractor is located on the WisDOT Internet site at:

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

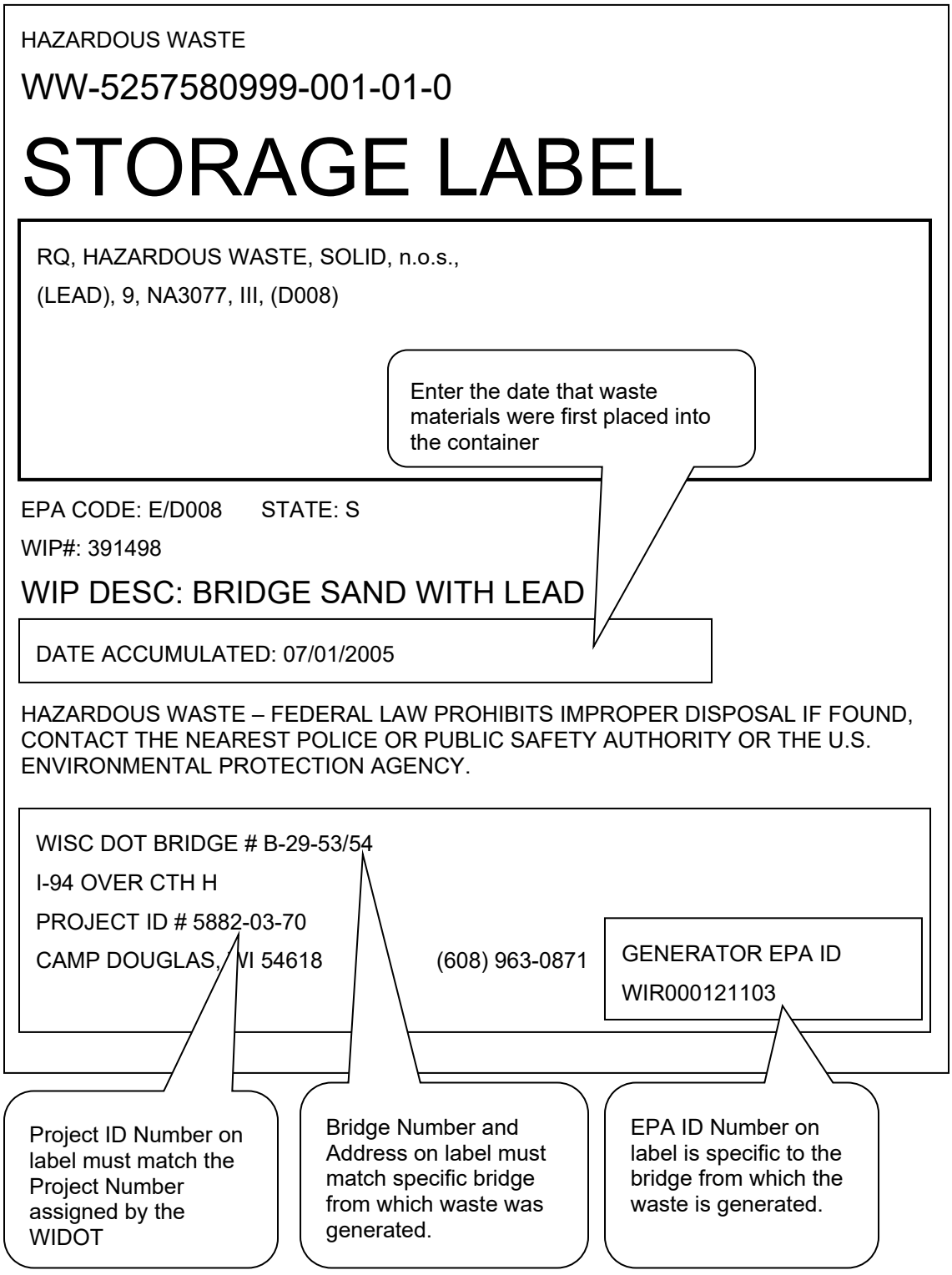
Report all reportable spills and discharges according to the contingency plan.

Labels are site-specific. Check the labels to ensure that the project ID, structure number, and EPA ID match the structure generating the waste. Apply a label to each drum when it is opened for the first time.

Fill in the date on the label the first day material is accumulated in the drum. The following page is an example of a properly filled-in label.

During paint removal operations, continuously monitor and notify the project inspector of the status of waste generation and quantity stored so that timely disposal can be arranged.

stp-517-055 (20230113)



75. Negative Pressure Containment and Collection of Waste Materials, B-40-356, Item 517.4501.S.0006; Negative Pressure Containment and Collection of Waste Materials, B-40-357, Item 517.4501.S.0007; Negative Pressure Containment and Collection of Waste Materials, B-40-360, Item 517.4501.S.0103; Negative Pressure Containment and Collection of Waste Materials, B-40-363, Item 517.4501.S.0104; Negative Pressure Containment and Collection of Waste Materials, B-40-364, Item 517.4501.S.0105.

A Description

This special provision describes providing a dust collector to maintain a negative air pressure in the enclosure; furnishing and erecting enclosures as required to contain, collect and store waste material resulting from the preparation of steel surfaces for painting, and repainting, including collection of such waste material, and labeling and storing waste material in approved hazardous waste containers.

B (Vacant)

C Construction

Erect an enclosure to completely enclose (surround) the blasting operations. The ground, slope paving, or roadway cannot be used as the bottom of the enclosure unless covered by approved containment materials. So that there are no visible emissions to the air or ground or water, design, erect, operate, maintain and disassemble the enclosures in such a manner to effectively contain and collect dust and waste materials resulting from surface preparation and paint over spray. Suspend all enclosures over water from the structure or as approved by the engineer.

Construct the enclosure of flexible materials such as tarpaulins or of rigid materials such as plywood, or of a combination of flexible and rigid materials and meet SSPC Guide 6 requirements with Level 1 emissions. Systems manufactured and provided by Eagle Industries, Detroit Tarps, or equal, are preferred. The tarpaulins shall be a non-permeable material, either as part of the tarp system or have a separate non-permeable lining. Maintain all materials free of tears, cuts or holes. The vertical sides of the enclosure shall extend from the bottom of the deck down to the level of the covered work platform or covered barge where used for structures over water and shall be fastened securely to those levels to prevent the wind from lifting them. Bulkheads are required between beams to enclose the blasting area as approved by the engineer. Where bulkheads are required, construct them of plywood and properly seal them. To prevent spent materials and paint over spray from escaping the enclosed area, overlap and fasten together all seams. Place groundcovers under all equipment before operations or as approved by the engineer.

To allow proper cleaning, inspection of structures or equipment, and painting, provide safe adequate artificial lighting in areas where natural light is inadequate.

Provide a dust collector so that there are no visible emissions outside of the enclosure and so that a negative air pressure inside the enclosure is maintained. The dust collector shall be sized to maintain the minimum air flow based on the cross-sectional area of the enclosure.

A combination of positive air input and negative air pressure may be needed to maintain the minimum airflow within the enclosure.

Filter all air exhausted from the enclosure to create a negative pressure within the enclosure so as to remove all hazardous and other particulate matter.

After all debris has been removed and all painting has been approved in the containment area is complete, remove containment according to SSPC Guide 6.

As a safety factor for structures over water, provide for scum control. Provide a plan for corrective measures to mitigate scum forming and list the procedures, labor and equipment needed to assure compliance. Effectively contain the scum that forms on the water and does not sink in place from moving upstream or downstream by the use of floating boom devices.

If in the use of floating boom devices, the scum tends to collect at the devices, contain, collect, store the scum, and do not allow it to travel upstream or downstream beyond the devices. Remove the scum at least once a day or more often if needed.

Collect and store at the bridge site for disposal all waste material or scum collected by this operation, or any that may have fallen onto the ground tarps. Collect and store all waste material and scum at the end of each workday or more often if needed. Storage shall be in provided hazardous waste containers. Label each container as it is filled, using the labels provided by the Hazardous Waste Disposal contractor. Check the label and ensure that the project ID, bridge number and EPA ID match the structure. Fill in the generation date when the first material is placed in the container. Secure all containers at the end of each workday. Keep the containers covered at all times except to add or remove waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain, or exposed to standing water.

In a separate operation, recover the recyclable abrasive for future application, and collect the paint and/or corrosion particles for disposal.

D Measurement

The department will measure Negative Pressure Containment and Collection of Waste Materials (Structure) as a single unit for each structure, 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
517.4501.S.0006	Negative Pressure Containment and Collection of Waste Materials B-40-356	EACH
517.4501.S.0007	Negative Pressure Containment and Collection of Waste Materials B-40-357	EACH
517.4501.S.0103	Negative Pressure Containment and Collection of Waste Materials B-40-360	EACH
517.4501.S.0104	Negative Pressure Containment and Collection of Waste Materials B-40-363	EACH
517.4501.S.0105	Negative Pressure Containment and Collection of Waste Materials B-40-364	EACH

Payment is full compensation for designing, erecting, operating, maintaining, and disassembling the containment devices; providing negative pressure exhaust ventilation; collecting, labeling, and for storing spent materials in provided hazardous waste containers.

stp-517-065 (20230113)

76. Portable Decontamination Facility, Item 517.6001.S.

A Description

This special provision describes furnishing and maintaining weekly, or more often if needed, a single unit portable decontamination facility.

B Materials

Supply and operate all equipment according to OSHA.

Supply adequate heating equipment with the necessary fuel to maintain a minimum temperature of 68° F in the facility.

The portable decontamination facility shall consist of a separate "Dirty Room", "Shower Room" and "Clean Room". The facility shall be constructed so as to permit use by either sex. The facility shall have adequate ventilation.

The "Dirty Room" shall have appropriately marked containers for disposable garments, clothing that requires laundering, worker shoes, and any other related equipment. Each container shall be lined with poly bags for transporting clothing, or for disposal. Benches shall be provided for personnel.

The "Shower Room" shall include self-contained individual showering stalls that are stable and well secured to the facility. Provide showers with a continuous supply of potable hot and cold water. The wastewater must be retained for filtration, treatment, and/or for proper disposal.

The "Clean Room" shall be equipped with secure storage facilities for street clothes and separate storage facilities for protective clothing. The lockers shall be sized to store clothing, valuables and other personal belongings for each worker. Benches shall be provided for personnel.

Supply a separate hand wash facility, either attached to the decontamination facility or outside the containment.

C Construction

Properly contain, store, and dispose of the wastewater.

D Measurement

The department will measure Portable Decontamination Facility 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
517.6001.S	Portable Decontamination Facility	EACH

Payment is full compensation for furnishing and maintaining a portable decontamination facility.

stp-517-060 (20230113)

77. Noise Barriers Double-Sided Sound Absorptive N-40-88, Item 541.0300.S.0107; Noise Barriers Double-Sided Sound Absorptive N-40-105, Item 541.0300.S.0108.

A Description

This special provision describes designing, fabricating, transporting, and erecting composite concrete double-sided sound absorptive noise barriers as the plans show and conforming to department-approved installation specifications.

B Noise Wall System

B.1 System Pre-Qualification and Selection

The noise wall system supplied must be pre-qualified by the department. The department maintains a list of pre-qualified systems which can be viewed online at:

https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx

Systems eligible for use on this project shall be pre-qualified before the award of this contract.

Provide the name of the selected system, and the intended fabricator to the engineer within 25 days after award of the contract. Schedule a pre-design meeting with the engineer subsequent to award of the contract and before beginning design of the noise barrier. A representative of the fabricator of the noise barrier components shall attend this meeting.

B.2 Design

B.2.1 Structural and Foundation Design

The structural and foundation design of the noise barrier system shall conform to the current edition of "AASHTO LRFD Bridge Design Specifications" published by the American Association of State Highway and Transportation Officials (AASHTO), 444 North Capitol Street, NW, Suite 225, Washington, DC 20001, with the following exceptions:

The minimum design wind pressure shall be 35 pounds per square foot (Strength III) for ground mounted noise barriers and 40 pounds per square foot (Strength III) for structure mounted noise barriers, unless specified otherwise on the plans. For ground and structure mounted noise barriers, the minimum Service I design wind pressure shall be 15 pounds per square foot. All wind loads shall be applied perpendicular to the barrier, alternately in each direction.

Design drilled shaft foundations using the Broms Method or the p-y Method. Ignore the top 1 foot of supporting soil in the design of ground-mounted barrier foundations.

In addition to wind loads, design the bottom noise barrier panel to support the dead load (weight) of the panels directly above it and its own dead load. Assume this dead load to be distributed uniformly across the bottom panel acting as a simple beam supported at the posts.

Bottom noise barrier panels shall have a minimum amount of perimeter reinforcement of a #4 bar which shall be continuous around the corners. Reinforcing steel in the concrete core of noise barrier panels shall have a minimum clear cover of 1 inch. Clear cover does not include sound absorptive material. Design the reinforced concrete core to resist the loads without considering any composite action from other material in the panel.

Provide a neoprene bearing pad or equivalent material of 1/4 inch minimum thickness between the foundation and the bottom panels. The allowable bearing stress shall not exceed 900 psi. Precast concrete pedestals placed between the foundation and bottom panels shall be reinforced if over 1’-0" high. The bearing pads shall be preformed EPDM rubber conforming to ASTM D-2000, Grade 2, Type A, Class A with a minimum Durometer Hardness of 80.

B.2.2 Fire Hose Access Openings

Design fire hose access openings, at locations the plans show, with additional reinforcement and clear cover around the opening as necessary to maintain structural integrity. Detail drawings shall show the additional reinforcement and method for attaching the Fire Hydrant Location Signs to the barrier panel.

B.2.3 Barrier Profile

Unless the plans show or the engineer approves otherwise, design the top of the noise barrier to be horizontal and at or above the acoustic elevation line the plans show. The bottom elevation of the noise barrier shall be as the plans show. Changes in elevation shall be accomplished by stepping sections at posts. Steps shall not exceed 3-feet in height. All joints shall be horizontal or vertical and shall be aligned with the adjacent panels.

B.2.4 Panel Orientation

Design the panels to prevent entrapment and ponding of water. Avoid inadvertently providing areas for perching, nesting of birds or collecting of dirt and debris in the design of the noise barrier system.

B.2.5 Sound Transmission Loss (TL)

Design the noise barrier panel material to achieve a transmission loss equal to or greater than 20 decibels in all test frequency bands, as referenced in ASTM E90.

B.2.6 Noise Reduction Coefficient (NRC)

Design the noise barrier system so that the highway sides of the noise barrier panels have a minimum NRC of 0.80 and the residential sides have a minimum NRC of 0.70 as referenced in ASTM C423.

B.2.7 Design Coordination

Design the noise barrier post spacing so as not to interfere with the existing utility and drainage facilities.

Design the noise barrier post spacing so as not to interfere with proposed utility and drainage facilities the plans show. This includes proposed roadway lighting and ITS facilities.

For noise barriers mounted behind or near proposed retaining walls, coordinate and design the noise barrier post spacing so as to not interfere with embedded portion of the proposed retaining walls, including MSE wall soil reinforcement and tieback anchors on soldier pile and timber lagging retaining walls.

For noise barriers mounted on proposed bridges and retaining walls, coordinate and design the noise barrier post spacing to coincide with noise barrier post and embedded noise barrier anchor assembly spacing shown on the bridge and retaining wall plans. Coordinate any required changes to the noise barrier post spacing and embedded noise barrier anchor assembly locations shown on the bridge and retaining wall plans, if required for the design of the noise barrier.

B.2.8 Weep Hole Openings

Design panels such that weep hole openings in noise wall to allow water to drain can be field installed per C.3 at locations the plans show.

B.2.9 Maintenance Doors

Design maintenance doors and door portals in noise walls, at locations the plans show, with additional reinforcement and clear cover around the opening as necessary to maintain structural integrity per B.2.1.

B.3 Materials

Required material certifications and testing are the responsibility of the contractor. All certifications and test reports shall carry the name and address of the fabrication facility where the specific material was produced.

B.3.1 Concrete Masonry

Provide grade A concrete conforming to standard spec 501 as modified in standard spec 716 for concrete posts and the core component of composite concrete sound absorbing panels. Provide QMP for class II ancillary concrete as specified in standard spec 716.

B.3.2 Materials Testing General

All test reports shall carry the name and address of the laboratory where testing was performed, and the name of the person in responsible charge of the specific tests for which data is presented. Materials tested shall be representative of materials manufactured for this specific contract. Panels tested or from which samples will be taken will be selected and appropriately marked by the engineer either at the manufacturer's plant or from panels delivered to the project at the engineer's option.

Testing as detailed below is required for each lot of material not to exceed 100,000 SF of noise barrier produced. Conduct testing on panels within the first 30,000 SF of production of each lot not exceeding 100,000 SF. For projects that do not exceed 100,000 SF, a minimum of two lots of material will represent the project, each lot representing equivalent square footage. The first set of tests conducted for projects that do not exceed 100,000 SF shall be within the first third of the total square footage of the project. Provide the shipping record of the samples to the laboratory within five days of sampling. Begin testing as soon as practicable after sampling.

Test all materials as fabricated, including any specified finishing.

B.3.2.1 Noise Reduction Coefficient (NRC)

Test noise barrier panels according to ASTM C423, and placed according to ASTM E795, mounting type A, to determine the noise reduction coefficient (NRC) of the material. Submit to the engineer an independent laboratory test report that shows that the noise barrier panels achieve an NRC as specified in B.2.6 for the highway side of the barrier.

B.3.2.2 Long-term Durability

Test all sound absorbing composite concrete and composite concrete components for long-term durability according to ASTM C672 and the following modifications and/or requirements:

B.3.2.2.1 Test Specimens

Three specimens of a full cross section of the composite panel at least 144 square inches in face area will be selected at random from the provided composite panel as defined in B.3. Sample specimens shall be representative of the manufacturer's continuous production operation, as selected and marked by the engineer. Specimens shall be 2D-symmetric and shaped according to the testing laboratory's accommodations.

Prepare the surfaces of the sample specimens for testing as follows. Brush the surfaces of the sample to remove any loose particles. Before testing, submerge the test specimens be submerged in water for a period of 24 hours before testing. Immediately following this, cover the specimens with the sodium chloride solution as stated below.

B.3.2.2.2 Test Procedure

Place samples in a 5 sided water tight container, fully submerged in a solution of sodium chloride (concentration 3% by mass). Maintain 1/4 inch of sodium chloride solution above the top surface of the fully submerged specimen within the container.

Subject the submerged specimens to continuous freeze-thaw cycles as follows:

After each five cycles, remove the salt solution and particles of deteriorated concrete from the slab and collect in a watertight container. The operation is best accomplished by tilting the slab in a funnel approximately 20 inches in diameter and washing the surface of the slab with a 3% sodium chloride solution. Continue this washing until all loose particles are removed from the sample. Strain the solution through a filter and dry the residue at 221 degrees Fahrenheit to a constant mass condition. Cumulatively weigh the residue after each five cycles. The dry residue is defined as the loss of mass. Calculate the loss of mass to the nearest 0.01 pounds per square foot, not including the exposed surface of any core material on the cast or cut edges. Visually rate the surfaces according to 10.1.5 of ASTM C672 including any delamination of the sound absorbing material from the concrete core for composite concrete materials. After each washing of each sample, re-establish the initial submerged condition with a new solution of 3% sodium chloride before continuing with freeze-thaw cycling.

Continue the test until 30 freeze-thaw cycles have been completed.

During the test position and support each specimen to allow free circulation of the test solution under, around, and over test pieces. Support the bottom of the specimens on blocks in a manner to facilitate movement of moisture through and around the test specimens.

B.3.2.2.3 Test Report

Submit to the engineer an independent testing laboratory test report which shows that all solid and composite concrete products meet or exceed the following criteria:

1. After 30 freeze-thaw cycles the test specimens shall not exhibit excessive deterioration in the form of cracks, spalls, aggregate disintegration, delamination or other objectionable features.
2. Compliance with the test requirements is based upon a loss of mass of not more than 0.2 pounds per square foot from the surface after 30 cycles of freezing and thawing.
3. The report shall include the following:
    - 3.1. Name of manufacturer.
    - 3.2. Location of production.
    - 3.3. Production description.
    - 3.4. Date product sample was cast.
    - 3.5. Date testing began.
    - 3.6. Specimen identification.
    - 3.7. 5x7-inch color photographs of the test specimens before and after the 30 cycles of freeze-thaw test showing both sound absorbing faces and at least one representative side view of a cut (not cast) face, and any defects.
    - 3.8. A graph of the cumulative mass loss of each specimen plotted against the number of freeze-thaw cycles for 5, 10, 15, 20, 25, and 30 freeze-thaw cycles.
    - 3.9. Visual rating according to ASTM C672 Section 10.1.5, including report of any delamination of the sound absorbing material from the concrete core for composite concrete components.

B.3.3 Materials Certification - General

Provide certification of compliance or sample fabrications as noted below. All material certifications shall reference the specific facility manufacturing the material and this contract. Certification is required for each lot of material not to exceed 100,000 SF of noise barrier produced, and shall include dates of fabrication for the lot being certified. For projects that do not exceed 100,000 SF, a minimum of two lots of material will represent the project, each lot representing equivalent square footage.

B.3.3.1 Color and Surface Texture

Supply and deliver to the engineer a 3 foot x 5 foot minimum test panel for each panel type with the specified pattern and colors. Obtain the engineer’s acceptance of the panel’s pattern and color before production of the panels required for the contract. The accepted pattern and color test panels shall remain on the project site in a readily accessible location for the duration of the project. The accepted pattern and color sample panels will be the standard for all noise barriers on the project.

Manufacture noise barrier posts of the same materials throughout the project. Shop apply coating and coloring of the post and panels.

Unless otherwise shown and provided for in the plans, wall pattern shall contain textures with relief features of sufficient depth and quantity to be distinguishable at an observation distance of 500-feet. The colors and textures chosen will be within the following parameters; however, at the discretion of the engineer, a single color and/or a single texture may be selected for either side of the noise barrier.

	FREEWAY SIDE	RESIDENTIAL SIDE
Number of colors	2	2
In the proportion of	75:25 (+/- 5%)	75:25 (+/-5%)
Number of textures	2	2
In the proportion of	75:25 (+/- 5%)	75:25 (+/- 5%)

Noise barrier wall panels are to be plain concrete with no stain or paint.

The engineer will visually inspect panels for color consistency upon arrival at the project. The panels shall have no substantial variation in color from the accepted sample panel submitted for the project. All panels with substantial color variation will be rejected and shall be removed from the project.

B.3.3.2 Structural Steel

Submit to the engineer certification of compliance, including mill certifications and heat numbers, that structural steel conforms to the properties required on the plans and shop drawings, and is galvanized after fabrication by the hot-dip process according to ASTM A123. Galvanize all steel hardware and threaded fasteners, bolts, nuts, and washers according to ASTM A153.

Shop coat all steel galvanized surfaces exposed to view with a department-approved paint system. Clean galvanizing surfaces to be painted according to SSPC-SP1 to remove, chlorides, sulfates zinc salts, oil, dirt, organic matter and other contaminants. Brush Blast clean the surfaces according to SSPC-SP7 to create a slight angular surface profile (1.0 – 1.5 mils suggested) for adhesion. Do not fracture the galvanized finish or remove any dry film thickness during these processes.

After cleaning, provide a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface. The tie coat shall etch the galvanized surface and prepare the surface for the top coat. Apply a top coat matching the finished color specified in B.3.2. Use a pre-approved top coat that is resistant to the effects of the sun, and is suitable for use in a marine environment. Exercise care so as not to damage the painted surfaces during shipment and erection of the noise barriers.

Use one of the qualified paint sources and products given below. An equivalent system may be used with the written approval of the engineer. Supply the engineer with the product data sheets before applying any coating. The product data sheets shall indicate the mixing and thinning directions, the recommended spray nozzles and pressures, the minimum drying time for shop applied coats, and the recommended procedures for coating galvanized bolts, nuts, and washers.

Producer	Coat	Products	Dry Film Minimum Thickness (mils)	Minimum Time Between Coats (hours)
Sherwin Williams Co. (847) 330-1250	Tie	Recoatable Epoxy Primer B67-5 Series/B67V5	2.0 to 4.0	6
	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
Carboline Co. (314) 644-1000	Tie	Rustbond Penetrating Sealer FC	1	36
	Top	Carboline 133 LH	4	NA
Wasser Corp. (253) 850-2967	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA

B.3.3.3 Sound Transmission Loss (TL)

Submit to the engineer certification of compliance that the sound transmission loss of the panel material, when tested according to ASTM Standard E90, achieves a transmission loss as specified in B.2.5.

B.3.3.4 Accelerated Weathering

Submit to the engineer certification of compliance that all coatings on barrier components, with the exception of structural steel and wood components comply with the following requirements when tested according to ASTM Standard G155, G153, or G152 after 2400 hours of exposure on a cement based test specimens:

1. No checking when rated according to ASTM D660.
2. No cracking when rated according to ASTM D661.
3. No blistering when rated according to ASTM D714.
4. No difference in adhesion between the unexposed control sample and an exposed sample when tested according to ASTM D3359, Method A.
5. No chalking less than #7 rating when rated according to ASTM D4214.
6. No color change greater than 5 NBS units when measured according to ASTM D2244, using illuminant D65 and the 1964 10-degree standard observer.

B.3.3.5 Corrosion Resistance (Salt Fog Exposure)

Submit to the engineer certification of compliance that all coated steel components, with the exception of structural steel, has a coating system that has been tested for corrosion resistance according to ASTM B117 and comply with the following requirements:

1. No checking when rated according to ASTM D660.
2. No blistering when rated according to ASTM D714.
3. No loss of adhesion when tested according to ASTM D3359 with no evidence of corrosion along the edges of the samples or along the score lines or both or other defects.

B.4 Project Submittal Requirements

Furnish required submittals according to the following:

B.4.1 Pre-Construction Submittals

A minimum of 14 days before beginning any shop or field work, submit the following documents to the engineer conforming to standard spec 105.2 with electronic submittal to the fabrication library under standard spec 105.2.2.

1. Structural and foundation design calculations
2. Design calculations shall be on 8 1/2 x 11-inch sheets, neatly bound with a title sheet listing the complete project identification number and sound barrier designation. Structural and foundation calculations shall be signed, sealed, and dated by a professional engineer licensed in the State of Wisconsin.
3. Detailed design/shop drawings.
4. Design/shop drawings shall conform to the contract plans and the requirements of these special provisions. The design/shop drawings shall consist of plan and profile sheets, details, explanatory notes, erection diagrams, aesthetic treatments, and other working plans. All dimensions, sizes of material, material information and other information necessary for the complete fabrication and construction of the noise barrier shall be designated on the appropriate sheets. The design/shop drawings shall be drawn to an appropriate scale on reproducible sheets 11 x 17 inches including borders. Each sheet shall carry the complete project identification number and noise barrier designation. Design/shop drawings shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.
5. Specifications regarding installation requirements and sequence of construction, including a detailed bill of materials.
6. Detailed color plan of the aesthetic treatments and finishes for the entire noise barrier.
7. Shipping, handling, and storage plan identifying methods or practices to limit post production damage.

Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings.

B.4.2 Pre-Installation Submittals

Supply and deliver to the engineer the sample panel required under Section B.3.3.1 at least 14 calendar days before beginning production and/or installation of job materials. Acceptance of the sample panel will be by: Alex Grasse, (414) 750-1404. If the panel is not acceptable, a second panel shall be produced and submitted for acceptance. Sample panel to be representative of quality for precast panel work after acceptance. Deliver test panels to the Construction Field Office, for comparison purposes during production of project panels.

B.4.3 Payment Submittals

Submit certifications and test data as required under B.3 for all materials, including trade name of the products along with the name and address of the manufacturers.

B.4.4 Submittal Review

The engineer's review and acceptance of the drawings, calculations, and related material, submitted by the contractor, is for compliance with design intent only, and does not relieve the contractor from responsibility in regard to errors or omissions on said submittals.

The final accepted design documents and/or shop drawings will become a part of the contract. Any substitution of materials or dimensions contemplated by the contractor's submitted documents, different from materials or dimensions shown on the contract plans, shall be made only when approved by the engineer, and in such case, additional costs resulting from such substitution shall be borne by the contractor.

Ordering materials before department acceptance of submittals is at the contractor's risk.

C Construction

C.1 General

Construct the noise barriers at the locations the plans show, according to the contract specifications and design drawings and/or as the engineer directs. Deliver all sound absorbing composite concrete components to the project site as a finished component. A sound absorbing composite concrete system, which has the sound absorbing material glue-laminated or alternately affixed by a secondary adhesion method on the project site, will not be allowed.

Provide a minimum ten day notice to the engineer of the date that the fabrication of the noise barrier material will begin.

Inspect all materials delivered to the construction site for proper dimensions, honeycombing, cracks, voids, surface defects, consistency in color and texture, and any other damage or imperfections, before installation.

If any part of the noise barrier material fails to comply with any requirements of the contract specification, the component shall either be corrected, permanently marked as unacceptable and be disposed of by the contractor or accepted at a reduced price. The decision will be made by the engineer and is dependent on the severity of the specification deviation.

Erect noise barriers to avoid conflict with any existing facilities or utilities to remain in place. Any damage caused by construction activities shall be repaired by the contractor at no cost to the department.

C.2 Fire Hydrant Location Signs

Attach fire hydrant location signs to the noise barrier at each location the plans show by a method the department's approved drawings show. The signs shall conform and be of the type specified in the department's sign plate book, plate D9-54 and/or D9-54A.

Compensation for furnishing and placing the fire hydrant location signs shall be included in the contract price for Noise Barriers Double-Sided Sound Absorptive and no additional compensation, therefore, will be allowed.

C.3 Weep Hole Openings

Provide weep hole openings for drainage at the locations and sized as noted on the plan. Install weep holes by drilling through the wall after erection of the noise barrier. Use 6" PVC Schedule 40 pipe sleeve conforming to ASTM D-1785. Epoxy 6" PVC Schedule 40 pipe sleeve into bored weep hole. PVC pipe sleeve shall fit snugly in cored hole through wall. Epoxy PVC pipe sleeve into bored weep hole in noise barrier. Locate and construct weep holes according to the plans and as the engineer directs. Place weep holes at locations the plans show unless the engineer approves adjusting locations to fit field conditions. The engineer will field verify the height and location of the weep hole for positive drainage.

C.4 Name Plates

Provide name plates conforming to the requirements of standard spec 506.2.4. Install one name plate on each noise barrier at the location the plans show. Rigidly attach each plate to the barrier by a means approved by the engineer.

Compensation for furnishing and placing of name plates shall be included in the contract price for Noise Barriers, Double-Sided Sound Absorptive Structure and no additional compensation therefore will be allowed.

C.5 Structure Mounted Noise Barriers

Do not erect noise barriers mounted to bridge or retaining wall structures until after the concrete for bridge decks and parapets or retaining wall moment slabs and parapets have attained their specified 28-day strength.

For noise barriers mounted to moment slabs and parapets on top of MSE retaining walls, erection of the noise barrier is limited to two-thirds the height of the noise barrier acoustical line the plans show before placement of earth fill or pavement over the top of the moment slab as the plans show. Erection of the noise barrier in excess of two-thirds its height to the full height of the noise barrier acoustical line the plans show may not occur until after the earth fill or pavement structure over the top of the moment slab the plans show is complete.

C.6 Construction Tolerances

Install the posts and panels comprising the noise barrier plumb within 1/2 inch in 15-feet. Locate the posts to the line and grades as the plans show to within +/- 3/4 inch. Align horizontal joints of adjacent panels to a vertical tolerance of 1/4 inch. Where vertical adjustments are required for alignment, use a mortar base or steel shims. Galvanize and prime coat steel shims according to B.3.3.2.

D Measurement

The department will measure Noise Barriers Double-Sided Sound Absorptive (Structure #) by the square foot, acceptably completed, as the area the original plans show plus engineer-approved modifications to the plan quantity caused by plan corrections or revisions.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
541.0300.S.0107	Noise Barriers Double-Sided Sound Absorptive N-40-88	SF
541.0300.S.0108	Noise Barriers Double-Sided Sound Absorptive N-40-105	SF

Payment is full compensation for providing noise barrier including coloring and aesthetic treatment on panels, preparing the design drawings and calculations, furnishing and delivering sample and test panels, materials testing, furnishing materials test reports and certifications, excavation, preparing the site, constructing foundations, erecting posts and panels, and disposing of waste materials.

stp-541-010 (20230113)

78. Concrete Barrier.

Add the following to standard spec 603.5.2 (3):

- Paving HMA under permanent concrete barrier will be paid under associated bid items in 460.

- Concrete barrier end anchors will be paid under item Concrete Barrier Type S42 End Anchor, Item SPV.0060.0003.

79. Reseal Crushed Aggregate Slope Paving, Item 604.9015.S.

A Description

This special provision describes sealing existing crushed aggregate slope paving as the engineer directs and conforming to standard spec 604 as modified in this special provision.

B Materials

Furnish materials conforming to standard spec 604.2.

C Construction

Clean all debris from the surface of the slope paving before applying asphalt. Apply sufficient asphalt so that it penetrates to seal the top 2 inches of aggregate; where existing asphalt is closer to the surface of the aggregate, apply less asphalt.

D Measurement

The department will measure Reseal Crushed Aggregate Slope Paving in area by the square yard of slope paving, acceptably resealed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
604.9015.S	Reseal Crushed Aggregate Slope Paving	SY

Payment is full compensation for cleaning the surface; furnishing and applying the asphalt.

stp-604-015 (20100709)

80. Catch Basins, Manholes, and Inlets.

Supplement standard spec 611.3.1 with the following:

Use a Grade "A" concrete for final adjustment of manhole cover. Provide a butyl rubber gasket or butyl rubber rope for joints of precast reinforced concrete manhole sections. Butyl Rubber gasket joint used for manholes conforms to 8.41.6 of the Standard Specification for Sewer and Water Construction in Wisconsin, latest Edition. Provide non-rocking covers for all drainage structures subject to traffic loading.

Submit shop drawings for all drainage structures. For structures where WisDOT standard detail drawings are not available, provide shop drawings prepared, verified and stamped by a professional engineer currently registered in the State of Wisconsin. Submit one electronic copy of shop drawings in portable document format for engineer’s review two weeks before fabrication. Show clearly on shop drawings information for all pipe connections to the structure. The contractor is responsible for all errors of detailing and fabrication. The omission from the shop drawings of any pipe connection shall not relieve contractor of the responsibility of providing such materials, even though the shop drawings may have been reviewed and accepted by the engineer.

Supplement standard spec 611.3.2 with the following:

Conform to storm sewer structural concrete collar detail for storm sewer pipes to structure connections as the plans show.

Supplement standard spec 611.3.3 with the following:

Use monolithic concrete shimming as the plan shows for final adjustment of drainage structures located within the concrete pavement, concrete shoulders, concrete curb and gutter and concrete barrier wall.

Supplement standard spec 611.3.7 with the following:

Construct height adjustments of 4-inches or more with concrete grade rings. Never use grade rings less than 2-inches thick.

Replace standard spec 611.5.2 (1) with the following:

Payment for Catch Basins, Manholes, and Inlets bid items is full compensation for providing all submittals; materials, including all masonry, and concrete bricks, for Grade “A” concrete adjustments and monolithic concrete shimming; adjusting rings; conduit and sewer connections, steps, and other fittings; for providing and installing butyl rubber joints; for furnishing backfill, backfilling; all excavating, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

Cost of non-rocking covers for all drainage structures subject to traffic loading is incidental to new cover on proposed structure or reconstructing/adjusting manholes or inlets on existing structure.

81. 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)

82. Salvaged Guardrail End Treatments.

Add the following to standard spec 614.3.9:

(4) Salvage the existing serviceable guardrail end treatments to the Milwaukee County Department of Public Works. The contact for Milwaukee County is Kevin Peiffer, (414) 750-1408. Contact Kevin Peiffer three business days prior to removing the guardrail end treatments.

SER-614-001 (20160831)

83. 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)

84. Topsoil and Salvaged Topsoil.

Replace standard spec 625.2 (1) with the following:

(1) Topsoil consists of loam, sandy loam, silt loam, silty clay loam, or clay loam humus-bearing soils adapted to sustain plant life, and ensure the topsoil consists of the following:

Topsoil Requirements	Minimum Range	Maximum Range
pH	6.0	8.0
Organic Matter*	5%	20%
Clay	5%	30%
Silt	10%	70%
Sand	10%	70%

*Organic matter determined by loss on ignition test of samples oven dried to constant weight at 212 F (100 C).

Add the following to standard spec 625.2:

(3) Furnish material that is free from large roots, sticks, weeds, brush, stones, litter, and waste products.

(4) Do not furnish surface soils from ditch bottoms, drained ponds, and eroded areas, or soils which are supporting growth of NR 40 listed plants and noxious weeds or other undesirable vegetation.

Replace standard spec 625.3.3 (3) with the following:

(3) Ensure that for the upper 2 inches, 100 percent of the material passes a one-inch sieve and at least 90 percent passes the No. 10 sieve.

SER-625-001 (20221007)

85. Stone Ditch Checks, Item 628.7515.S.

A Description

This special provision describes furnishing, installing, maintaining, and removing stone ditch checks, either temporary or permanent, as the plans show or as the engineer directs.

B Materials

Furnish materials conforming to the requirements for Riprap Extra Light according to standard spec 606.2.1.

C Construction

Place stone ditch checks immediately after shaping of the ditches is completed. Place stone ditch checks perpendicular to the direction of flow. Construct according to the plan details.

During construction, maintain stone ditch checks by removing sediment whenever it accumulates to one half of the original ditch check height. Remove all accumulated sediment prior to final stabilization.

For temporary installations, remove all materials incorporated into the work when directed by the engineer. Restore areas with topsoil, seed, fertilizer, and other erosion control items as directed by the engineer.

D Measurement

The department will measure Stone Ditch Checks by the cubic yard of material, 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
628.7515.S	Stone Ditch Checks	CY

Payment is full compensation for excavating, furnishing, placing, and shaping Stone Ditch Checks.

Removal of sediment and removal of temporary stone ditch checks will be paid under the Excavation Common bid item by multiplying the measured removal quantity by a factor of ten.

The department will pay separately for restoration and erosion control items under the appropriate contract bid items.

The department will pay separately for Geotextile Type R fabric.

stp-628-050 (20210708)

86. Fertilizer Type B.

Replace standard spec 629.2.1.3 with the following:

(1) Fertilizer Type B Special will conform to the following requirements:

Nitrogen, not less than 24% with 6% percent of the nitrogen being slow release.
Phosphorus, not less than 15%
Potash, not less than 9%

(2) The total nitrogen, phosphorus, and potash shall equal at least 48 percent.

Replace standard spec 629.3.1.3 with the following:

(1) Apply fertilizer containing at least 48 percent total nitrogen, phosphorus, and potash at 5 pounds per 1,000 square feet unless otherwise directed by the engineer. For Fertilizer Type B Special that contains a different percentage of components, determine the new application rate by multiplying the specified rate by a dimensionless conversion factor determined as follows:

Conversion Factor = 48 / New Percentage of Components

Replace standard spec 629.4(1):

(1) The department will measure Fertilizer Type B, Special by the hundred pounds (CWT) acceptably completed, measured based on the application rate of 5 pounds per 1,000 square feet. The department will not measure fertilizer used for the bid items under 632. The measured quantity equals the number of hundred-weight (CWT) of material determined by multiplying the actual number of cwt. of material incorporated by the ratio of the actual percentage of fertilizer components used to 48 percent for Fertilizer Type B Special.

SER-629-001 (20230109)

87. Seeding.

Replace standard spec 630.3.5 (1) with the following:

(1) Use the following sowing rate for seeds in pounds per 1000 square feet:

- No. 10 at 3 pounds
- No. 20 at 5 pounds
- No. 30 at 5 pounds
- No. 40 at 5 pounds
- No. 60 at an equivalent seeding rate of 1.5 pounds*[1]*
- No. 70 or 70A at 0.4 pounds
- No. 75 at an equivalent seeding rate of 0.7 pounds[1]
- No. 80 at an equivalent seeding rate of 0.8 pounds[1]
- Temporary seeding at 3 pounds
- Nurse crop seeding at 2 pounds

[1] Determine the actual seeding rate by multiplying the equivalent seeding rate by the sum of the unadjusted and adjusted percentages of the various species in the seed mixtures as sown.

SER-630-002 (20221013)

88. Signs Type I and II.

Furnish and install mounting brackets per approved product list for type II signs on overhead sign supports incidental to sign. For type II signs on sign bridges use aluminum vertical support beams noted above incidental to sign.

Supplement standard spec 637.2.4 with the following:

Use stainless steel bolts, washers and nuts for type I and type II signs mounted on sign bridges or type I signs mounted on overhead sign supports. Use clips on every joint for Sign Plate A 4-6 when mounted on a sign bridge or overhead sign support. Inspect installation of clips and assure bolts and nuts are tightened to manufacturers recommended torque values.

Use aluminum vertical sign support beams that have a 5-inch wide flange and weigh 3.7 pounds per foot, if the L-brackets are 4 inches wide then use 4 inch wide flange beams weighing 3.06 pounds per foot. Contractor shall measure the width of the L-brackets on existing structures of determine the width needed for sign support beams.

Use beams a minimum of 6 feet in length or equal to the height of the sign to be supported, whichever is greater. Use U-bolts that are made of stainless steel,1/2 inch diameter and of the proper size to fit the truss cords of each sign bridge. Install vertical sign support beams on each sign and use new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss.

For type II signs on overhead sign supports follow the approved product list for mounting brackets.

Replace standard spec 637.3.3.2(2) with the following:

(2) Install Type I Signs at the offset stated in the plan, which shall be the clear distance between the edge of mainline pavement right edgeline and the near edge of the sign.

Supplement standard spec 637.3.3.3(3) with the following:

Furnish and install new aluminum vertical sign support beams on each sign and new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss for Type I or Type II Signs and Type I signs on overhead sign supports incidental to sign.

Add the following to standard spec 641.2:

Submit shop drawings for sign bridges and overhead sign supports to SE Region Traffic Operations Engineer, Tom Heydel and Bureau of Structures Design.

SER-637-001 (20170621)

89. Blue Specific Service Signs.

Add the following to standard spec 638.3.4:

Do not remove or move blue specific service signs or their associated posts. Specific service signs are signs with logos that identify commercial entities providing gas, food, lodging, camping, or attractions. A separate contractor, Interstate Logos - Wisconsin, is responsible for these signs. Contact Interstate Logos - Wisconsin at (844) 496-9163 a minimum of 14 calendar days in advance to coordinate removing, moving, or re-installation of these signs.

The contractor is responsible for damage done to these signs due to contractor operations.

stp-638-010 (20150630)

90. Covering Signs.

Replace standard spec 643.2.3.3(2) with the following:

(2) Ensure that covers are flat black, blank, and opaque.

Add the following to standard spec 643.3.4.1 as paragraph four:

(4) If multiple messages on a single sign are required to be covered, minimize the number of holes created by covering the sign with a single rectangular shaped covering. Multiple coverings on a single sign is only permissible where necessary to avoid covering necessary content or as directed by the engineer. Submit sign covering plans to the engineer for single signs requiring multiple coverings 3 days before performing work. Obtain engineer approval before covering signs. Remove sign coverings before placing fixed messages signs unless otherwise directed by the engineer.

sef-643-005 (20180104)

91. Nighttime Work Lighting-Stationary.

A Description

This special provision describes furnishing portable lighting as necessary to complete nighttime work. Nighttime operations consist of work specifically scheduled to occur after sunset and before sunrise.

B (Vacant)

C Construction

C.1 General

This provision shall apply when providing, maintaining, moving, and removing portable light towers and equipment-mounted lighting fixtures for nighttime stationary work operations, for the duration of nighttime work on the contract.

At least 14 days before the nighttime work, furnish a lighting plan to the engineer for review and acceptance. Address the following in the plan:

1. Layout, including location of portable lighting – lateral placement, height, and spacing. Clearly show on the layout the location of all lights necessary for every aspect of work to be done at night.
2. Specifications, brochures, and technical data of all lighting equipment to be used.
3. The details on how the luminaires will be attached.
4. Electrical power source information.
5. Details on the louvers, shields, or methods to be employed to reduce glare.
6. Lighting calculations. Provide illumination with average to minimum uniformity ratio of 5:1 or less throughout the work area.
7. Detail information on any other auxiliary equipment.

C.2 Portable Lighting

Provide portable lighting that is sturdy and free standing and does not require any guy wires, braces, or any other attachments. Furnish portable lighting capable of being moved as necessary to keep up with the construction project. Position the portable lighting and trailers to minimize the risk of being impacted by traffic on the roadway or by construction traffic or equipment. Provide lightning protection for the portable lighting. Portable lighting shall withstand up to 60 mph wind velocity.

If portable generators are used as a power source, furnish adequate power to operate all required lighting equipment without any interruption during the nighttime work. Provide wiring that is weatherproof and installed according to local, state, federal (NECA and OSHA) requirements. Equip all power sources with a ground-fault circuit interrupter to prevent electrical shock.

C.3 Light Level and Uniformity

Position (spacing and mounting height) the luminaires to provide illumination with an average to minimum uniformity ratio of 5:1 or less throughout the work area.

Illuminate the area as necessary to incorporate construction vehicles, equipment, and personnel activities.

C.4 Glare Control

Design, install, and operate all lighting supplied under these specifications to minimize or avoid glare that interferes with all traffic on the roadway or that causes annoyance or discomfort for properties adjoining the roadway. Locate, aim, and adjust the luminaires to provide the adequate level of illumination and the specified uniformity in the work area without the creation of objectionable glare.

Provide louvers, shields, or visors, as needed, to reduce any objectionable levels of glare. As a minimum, ensure the following requirements are met to avoid objectionable glare on the roadways open to traffic in either direction or for adjoining properties:

1. Aim tower-mounted luminaires, either parallel or perpendicular to the roadway, so as to minimize light aimed toward approaching traffic.
2. Aim all luminaires such that the center of beam axis is no greater than 60 degrees above vertical (straight down).

If lighting does not meet above-mentioned criteria, adjust the lighting within 24 hours.

C.5 Continuous Operation

Provide and have available sufficient fuel, spare lamps, generators, and qualified personnel to ensure that the lights will operate continuously during nighttime operation. In the event of any failure of the lighting system, discontinue the operation until the adequate level of illumination is restored. Move and remove lighting as necessary.

D (Vacant)

E Payment

Costs for furnishing a lighting plan, and for providing, maintaining, moving, and removing portable lighting, tower mounted lighting, and equipment-mounted lighting required under this special provision are incidental to the contract.

stp-643-010 (20100709)

92. Dynamic Late Merge System, Item 643.1100.S.

A Description

This special provision describes providing, repositioning, operating, maintaining, monitoring, calibrating, testing and removing a dynamic late merge system (DLMS) capable of measuring vehicular speeds at downstream sections of the roadway and activating the system.

B Materials

Provide DLMS components and software that is National Transportation Communications for ITS Protocol (NCTIP) compliant.

B.1 Portable Changeable Message Signs (PCMS)

Provide PCMS conforming to standard spec 643. Ensure each PCMS is integrated with a modem, and other equipment (e.g., automated system manager) mounted on it, and acts as a single device for communicating with similarly integrated devices and displaying real-time traffic conditions.

B.2 Portable Traffic Sensors (PTS)

Provide PTS that are nonintrusive and capable of capturing vehicle speed in mph. Integrate each sensor with a modem to communicate with the automated system manager (ASM).

B.3 Static Traffic Control Signs with Temporary Flashing Beacons (FBS)

Provide static traffic control signs with temporary flashing beacon signs conforming to standard spec 658.2(2) for Traffic Signal Faces. Ensure each FBS is integrated with a modem, and other equipment (e.g., automated system manager) mounted on it, and acts as a single device for communicating with similarly integrated devices and displaying real-time traffic conditions.

B.4 Automated System Manager (ASM)

Provide an ASM that assesses current traffic data captured by the PTS, determines the appropriate merging strategy based upon predetermined speed thresholds, and communicates appropriate messages to the motorists through the PCMS and FBS.

B.5 System Communications

Ensure DLMS communications meet the following requirements:

1. Perform required configuration of the DLMS communication system automatically during system initialization.
2. Communication between the server and any individual PCMS, FBS or PTS are independent through the full range of deployed locations, and do not rely upon communications with any other PCMS, FBS or PTS.
3. Incorporate an error detection/correction mechanism into the DLMS communication system to ensure the integrity of all traffic condition data and motorist information messages.

B.6 System Acceptance

Submit vendor verification to the engineer and Bureau of Traffic Operations (DOTBTOworkzone@dot.wi.gov) 14 calendar days before the pre-construction meeting that the system will adequately perform the functions specified in this special provision. Adequate verification includes past successful performance of the system, literature and references from successful use of the system by other agencies, and/or demonstration of the system.

Provide contact information for a designated representative responsible for monitoring the performance of the system and for making modifications to the operational settings as the engineer directs.

Provide all testing and calibration equipment.

C Construction

C.1 General

Install and reposition DLMS per plan or as the engineer directs. Provide plan to the engineer and Bureau of Traffic Operations (DOTBTOworkzone@dot.wi.gov) 14 calendar days before the pre-construction meeting.

PTS may be mounted on PCMS, FBS, arrow board or other trailer devices.

Install PTS at the following locations:

1. Place first PTS within the lane closure taper.
2. Place second PTS one half mile upstream of the lane closure taper.
3. Place third PTS 5,700 feet upstream of the lane closure taper.
4. Place fourth PTS 2 miles upstream of lane closure taper, if applicable.
5. Place any additional sensors even distances (in miles) upstream of the fourth PTS or as directed by the engineer.

Install the PCMS at the following locations, delineated by 5 drums:

1. Place first PCMS (PCMS #3) 200 feet upstream of the lane closure taper, offset to ensure downstream arrow board can be seen.
2. Place second PCMS (PCMS #2) approximately 3,100 feet upstream of the lane closure taper.
3. Place third PCMS (PCMS #1) 1 mile upstream of last FBS.

Install the FBS at the following locations, delineated by 5 drums:

1. Place first FBS (FBS #1) 5,700 feet upstream of the lane closure taper.
2. Place second FBS 2 miles upstream of the lane closure taper.
3. Place third FBS 3 miles upstream of the lane closure taper.
4. Place any additional FBS even distances (in miles) upstream of the third FBS or as directed by the engineer.

Number the devices in chronological order so they are visible from the shoulder with 6-inch white high reflective sheeting.

Provide technical personnel for all system calibration, operation, maintenance, and timely on-call support services.

Promptly correct the system within 24 hours of becoming aware of a deficiency in the operation or individual part of the system. A minimum of three days before deployment, place the DLMS and demonstrate to the department that the DLMS is operational.

Maintain the DLMS for the duration of the project or as identified in the plans. Ensure the system operates continuously (24 hours, 7 days a week) in the automated mode throughout the duration of the project.

Remove the system upon project completion.

C.2 Reports

Provide an electronic copy of a weekly summary report via email to the engineer. Ensure the report includes, at a minimum, the average speed per sensor, time in congestive state per sensor and number of triggers per day.

C.3 Meetings

Attend mandatory in-person pre-construction meetings with the department. Attend additional meetings as deemed necessary by the department. These meetings may be held in person or via teleconference, as scheduled by the department.

C.4 Programming

C.4.1 General

Program the DLMS to ensure that the following general operations are performed:

1. Provide a password protected login to the ASM, website and all other databases.
2. Automatic setting of the PCMS message sequences and FBS to reflect current traffic flow status updated every 60 seconds for a congestion message. Ensure to remove a congestion message when 180 seconds of average traffic speeds above the current level are observed, or utilize a customized frequency as determined by the engineer.
3. The DLMS operates as a unit where the PCMS activate at the same time for the same scenario.
    - PCMS #1, PCMS #2 and PCMS #3 shall all activate at the same time based on traffic speeds at the PTS one half mile upstream of the lane closure taper and at the PTS within the lane closure taper.
4. The ASM ensures that messages sent to the connected PCMS are synchronized so that all the messages on all the PCMS are for the same traffic conditions.
5. The FBS activate based on pre-determined speed thresholds from the next downstream sensor.
    - FBS #1 shall activate based on traffic speeds at the PTS within the lane closure taper or PTS one half mile upstream of the lane closure.
    - All other FBS in the DLMS shall activate based on traffic speeds at the next downstream PTS (e.g. FBS #2 should use PTS at/near FBS #1, FBS #3 should use PTS at/near FBS #2).
6. Provide real-time data from the ASM to a website with a full color mapping feature and refresh every 60 seconds. Make data on website available to the department at all times for the duration of the work zone activity. Ensure website includes at a minimum:
    - Vehicle speeds
    - PCMS messaging
    - FBS triggers
    - Device locations
7. Archive all traffic data and PCMS messages in a Microsoft Excel format with date and time stamps.
8. Configure the website to quantify system failures, which includes communication disruption between any devices in the system configuration, PCMS malfunctioning, FBS malfunctioning, PTS malfunction, loss of power, low battery, etc.
9. Provide default and advisory messages automatically based on traffic conditions.
10. Ensure the system autonomously restarts in case of any power failure.
11. Provide the department access to manually override PCMS messages for a user-specified duration, after which automatic operation will resume display of messages appropriate to the prevailing traffic conditions. Document all override messages.

C.4.2 System Operation Strategy

Arrange for the vendor/manufacturer to coordinate system operation, detection, trends/thresholds, and messaging parameters with the engineer.

The sequences that are a minimum requirement, but can be adjusted at the discretion of the engineer, are as follows:

Free Flow:

If the current PTS-measured speed with the lane closure taper or at one half mile from the lane closure taper is at or above 40 mph, display no lane use messages, and therefore allow traffic to resume typical early merge operation. PCMS #1 and PCMS #2 shall display nothing except for lighting the four corners (flashing caution mode) to show that it is on. PCMS #3 shall display a flashing arrow (flashing arrow merge mode) following applicable arrow board standards.

Congestion:

If the current PTS-measured speed near the lane closure tape is at or below 39 mph, the following two-phase messages shall be displayed on the upstream PMCS as shown below:

- Point of merge (PCMS #3):

FRAME 1	FRAME 2
MERGE HERE	TAKE TURNS

- Intermediate PCMS (PCMS #2):

FRAME 1	FRAME 2
STAY IN LANE	DO NOT MERGE

- PCMS located beyond estimated maximum queue length for two-lane configuration (PCMS #1):

FRAME 1	FRAME 2
STOPPED TRAFFIC AHEAD	USE BOTH LANES

- PCMS located beyond estimated maximum queue length for three-lane configuration (PCMS #1):

FRAME 1	FRAME 2
STOPPED TRAFFIC AHEAD	USE ALL LANES

FBS #1 shall flash if the current PTS-measured speed within the lane closure taper or at one half mile upstream of the lane closure taper is at or below 39 mph. All other FBS shall flash if the current PTS-measured speed at/near the next downstream PTS is at or below 39 mph.

C.5 Calibration and Testing

At the beginning of the project perform a successful field test and calibration at the DLMS location to verify the system is detecting accurate vehicle speeds, and accurately relaying the information to the ASM, PCMS and FBS.

Send email of successful calibration and testing to the engineer.

D Measurement

The department will measure Dynamic Late Merge System by the day, acceptably completed, measured as each complete system per roadway.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
643.1100.S	Dynamic Late Merge System	DAY

Payment is full compensation for providing, repositioning, operating, maintaining, monitoring, calibrating, testing, and removing the complete system consisting of PCMS, FBS, PTS, ASM, and system communications.

Failure to correct a deficiency to the PCMS, FBS, PTS, or ASM within 24 hours after notification from the engineer or the department will result in a one-day deduction of the measured quantity for each day in which the deficiency is not corrected.

Failure to correct the website within 24 hours after notification from the engineer will result in a 10% reduction of the day quantity for each day the website is down.

The engineer will have sole discretion to assess the deductions for an improperly working DLMS.

stp-643-040 (20200629)

93. General Requirements for Electrical Work.

General

Add the following to standard spec 651, 652, 653, 654, 655, 656, 657 and 659.

All the work necessary to comply with revisions to standards specifications mentioned herewith shall be incidental to associated pay items or to the project including coordination, materials, and labor. No additional payment shall be made to the contractor.

Add the following to standard spec 651.2:

Wisconsin Department of Transportation

Materials indicated to be returned to the department shall be hauled to one of the following two locations:

1. State Electrical Shop at 935 South 60th street, West Allis, as directed by Mr. Pat Stoetzel, tel. (414) 750-5306

Arrange pickups and deliveries 3 days in advance and during regular business hours (Monday – Thursday 7:00 AM to 3:45 PM).

Add the following to standard spec 651.3.1:

Any circuit that the contractor does not personally tag out at the disconnect shall be considered live, and will be subject to being activated by another person with no notice to the contractor. Make tagouts with manufactured tags and endorse them with the date and the name of the contractor. Clear tagouts at the end of the workday. The department does not employ a load dispatcher and has no intent to do so. Each electrical worker is responsible for their own protection from automatic switching and from switching by others.

The plans show required disconnections of existing lighting circuits, most in the form of abandoning existing underground conductors in place. The contractor may need to mobilize several times per each existing lighting distribution center. The contractor is expected to build these costs into the various paid items for removals and installations.

Add the following to standard spec 651.5:

Work to disconnect and connect conductors will be incidental to the paid measurement of footage.

There will be no measurement for payment for abandoning conductors or removing conductors for scrap.

Work to disconnect and connect electrical system, splice through, or to connect conductors are incidental to the installation or removal of the freeway lighting pay items included in this contract. The department will not measure conductors or conduits that have been abandoned in place or removed for scrap. The department will allow, at the contractor’s discretion, for the salvaging of conductors to be abandoned, if possible.

Add the following to standard spec 652.3.1.4:

Support conductors at the top of the vertical raceway or as close as practical if the vertical rise exceeds 40-feet. Provide additional supports as shown; in no case shall the distance between supports exceed that shown in Table 300.19(A) of the Wisconsin State Electric Code.

Add the following to standard spec 653.3(1):

This provision modifies the standard detail drawing for pull boxes and thereby both the standard items and SPV pay item for pull boxes. Lighting pull box covers shall read “LIGHTING”.

Add the following to standard spec 655.3.1:

Wet location splices are not anticipated on this project and not shown in the plans. In the event that the engineer allows wet location splices, make pull box splices with engineer approved epoxy kit for the freeway lighting and should be incidental to the installation of pull box.

At each pull point or access point, indicate the line side bundle with a lap of blue tape. Mark conductors in poles and in pull boxes or other terminations with a 6-Inch long blue tape wrap to identify the set of conductors emanating from distribution center (feeder).

Add the following to standard spec 655.3.7(4):

Where two or more wire networks pass through a pull point, tag each circuit network (i.e. A/B/N and C/D/N) with approved all-weather tags.

Add the following to standard spec 657.2:

Non-breakaway poles (mounted on structures, concrete bases or behind noise wall barriers without transformer base), as well as at stems of sign bridges containing electrical wires are to be double nutted and install galvanized rat screen enclosing the bottom of pole area, extra nuts and screen incidental.

Add the following to standard spec 657.3.1and 657.3.5:

Corrosion protection measures described in standard spec 657.3.1 and 657.3.5 are invoked for breakaway transformer bases and aluminum light poles. Avoid contact of dissimilar metals in erecting the pole on its foundation and/or breakaway device. Resolve any concern of trapped moisture or potential corrosion cell to the satisfaction of the engineer.

Manufacturer's Warranty for LED luminaires: The manufacturer shall warrant to the department that each complete luminaire (consisting of the housing, optical assembly, LED drivers, surge protection and wiring) will be free from defects in material and workmanship for 10 years from the date that the luminaire are put into service. Install luminaires within one year of manufacture.

If any luminaires fail to meet the above warranty, the department shall provide the manufacturer with a written notice of any defect within 30 days after discovery of the defect. The manufacturer shall provide all materials, luminaires, replacement component parts, labor and all incidentals necessary to restore the luminaire to a fully operational, installed condition.

Submittal Requirements for LED luminaires: Considering the rapid advancement in LED technology, the overall project construction and duration of construction, within 10 calendar days after contract execution, the contractor is responsible to coordinate the lead time for LED luminaires purchase and installation schedule with the engineer and the department's lighting engineer, Eric Perea, at eric.perea@dot.wi.gov or at (414) 750-0935 for freeway lighting system prior to order LED luminaires. The LED luminaires purchasing may be done during later stage of construction as directed by the department which shall not delay the construction.

Add the following to standard spec 659.3:

Provide and install / replace Plaques Light Pole on all poles located in the median at a mounting height of 6-inch above the highest adjacent safety barrier or obstruction.

Add the following to standard spec 659.3.1:

Contractor responsible to provide adequate temporary roadway lighting during all the construction stages not shown on the temporary lighting plans, but which are necessitated by field conditions or by any construction phasing changes. Installation of temporary lighting not shown on temporary lighting plans will be paid according to appropriate pay items included in this contract. Contractor responsible to submit a redline markup plans for any additional temporary lighting to the engineer for approval prior to installation.

94. Electrical Conduit.

Replace standard spec 652.5(2) with the following:

(2) Payment for Conduit Rigid Metallic, Conduit Rigid Nonmetallic, Conduit Reinforced Thermosetting Resin, and Conduit Special bid items is full compensation for providing the conduit, conduit bodies, and fittings; for providing all conduit hangers, clips, attachments, and fittings used to support conduit on structures; for pull wires or ropes; for expansion fittings and caps; for making necessary connections into existing pull box, manhole, junction box or communication vault; for excavating, bedding, and backfilling, including any sand, concrete, or other required materials; for disposing of surplus materials; and for making inspections.

Replace standard spec 652.5(5) with the following:

(5) Payment for Conduit Loop Detector is full compensation for providing all materials, including conduit, compacted backfill, surface sealer if required, pull wire if required, condulets, conduit fittings, and for making necessary connections into existing pull box, manhole, junction box or communication vault.

95. Install Conduit Into Existing Item, Item 652.0700.S.

A Description

This special provision describes installing proposed conduits into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials

Use conduits, as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the standard spec.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole, or holes, for entering conduits at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the respective drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

The department will measure Install Conduit Into Existing System by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	EACH

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

stp-652-070 (20230629)

96. Electrical Service Meter Breaker Pedestal IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item 656.0201.0001.

Append standard spec 656.2.3 with the following:

(2) The department will be responsible for the electrical service installation request for any department maintained facility. Notify the maintaining authority if the signal is not state maintained that it is their responsibility to arrange for the electrical service installation.

(3) Electrical utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

(4) Install the cabinet base and meter breaker pedestal first, so the electrical utility company can install the service lateral. Install a 3” conduit from the point of service from the utility to the meter breaker pedestal. Finish grade the service trench, replace topsoil that is lost or contaminated with other materials, fertilize, seed, and mulch all areas that are disturbed by the electrical utility company.

Append standard spec 656.5 with the following:

(8) Payment is full compensation for grading the service trench; replacing topsoil; and for fertilizing, seeding, and mulching to restore the disturbed area of the service trench.

97. Signal Housings.

Add the following to standard specifications 658.2(3):

Furnish polycarbonate resin housings, doors, and visors. Use yellow, Federal Standard 595 - FS13538, housings and dull black door faces and visors. For 16-inch heads, mount a z-crate visor and gasket to the door with stainless steel tabs. Drill the housing for top and bottom pipe mounting with the ability to rotate 270 degrees on the poly mounting brackets.

Replace standard spec 658.2(4) with the following:

For pedestrian signal faces: furnish polycarbonate resin housings, doors, and visors. Use yellow, Federal Standard 595 – FS13538, housings and dull black door faces and visors. For 16-inch heads, mount a z-crate visor and gasket to the door with stainless steel tabs. Drill the housing for top and bottom pipe mounting with the ability to rotate 270 degrees on the poly mounting brackets.

98. Pedestrian Push Buttons.

Replace standard spec 658.3(3) with the following:

For Pedestrian push buttons: provide a 3/4-inch diameter push button mounting hole for wiring purposes in standards or poles. De-burr the holes after sawing and before installing the wire. Use shielded, 14 AWG, 2 conductor, polyethylene insulated, with 16 AWG drain wire, conforming to IMSA Specification Number 50-2 for loop detector lead-in cable, to wire the push button in one continuous run from the cabinet to the push button at the locations indicated on the plan.

99. Traffic Control.

Supplement standard spec 643.3.1 with the following:

Provide the Milwaukee County Sheriff's Department, the Wisconsin State Patrol, Wauwatosa Police Department and the engineer a current telephone number with which the contractor or his representative can be contacted during non-working hours in the event a safety hazard develops.

Do not park or store equipment, contractor’s and personal vehicles or construction materials within the clear zone or on any roadway carrying traffic during working and non-working hours except at locations and periods of time approved by the engineer.

Do not permit construction or personnel equipment or vehicles to directly cross the live traffic lanes of the freeway. Yield to all through traffic at all locations. Equip all vehicles or equipment operating in the live traffic lanes with a hazard identification beam (flashing yellow signal light) that is visible from 360 degrees. Operate the flashing yellow beam only when merging or exiting live traffic lanes or when parked or operating on shoulders, except when parked behind barrier wall. Do not park personal vehicles within the access control limits of the freeway. Do not cross live traffic lanes of the freeway with equipment or vehicles.

Obtain prior approval from the engineer for the locations of egress or ingress for construction vehicles to prosecute the work.

Do not disturb, remove or obliterate any traffic control signs, advisory signs, sand barrel array, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer.

Ensure that Flagging operations conform to standard spec 104.6.1.(4) and chapter 6E of the WMUTCD.

Replace standard spec 643.3.1.(7) with the following:

Provide equipment, forces, and materials to promptly restore any traffic control devices or pavement markings damaged or disturbed within 2 hours of being contacted.

SER-643-001 (20170808)

100. Traffic Signal Mounting Hardware.

Replace standard spec 658.2.(7) with the following:

(7) For signal mounting hardware: furnish weather tight mounting hardware. Protect mounting hardware from the elements before installation. Use corrosion resistant poly bracket shims. Use an approved type of pole or standard vertical mounting brackets/clamps for signal faces from an approved manufacturer. Pedestrian traffic signal heads mounted in the median shall use federal yellow aluminum side of pole 2-way upper and lower arm assemblies providing 16 ½-inch center to center spacing.

101. Traffic Signal Faces and Pedestrian Signal Face 16-Inch.

Add the following to standard specification 658.3:

(5) Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

102. Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.1001.

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.1001.	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)

103. Temporary Traffic Signal for Intersections IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item 661.0201.0001.

Replace standard spec 661.2.1 (1) with the following:

(1) Furnish control cabinet and control equipment. The department will supply, maintain, and install a signal controller, cellular modem, and ethernet switch to establish remote communication to the signal controller and vehicle detection system. The cabinet must be equipped with a 6-circuit Isotel independent of the GFI receptacles. Provide a cabinet with a Corbin #2 door lock and an access door that allows placing the controller in emergency flash. Provide keys to the access door to the engineer and law enforcement agencies as required. Also provide a manual control accessible by the police. Test traffic signal control cabinets before installation. The department will provide the signal controller with the initial traffic signal timing, and the department will be responsible for all subsequent signal timing changes.

Replace standard spec 661.2.1 (3) with the following:

(3) Use existing underground electric service and meter breaker pedestal for the operation of the Temporary Traffic Signal. The contractor will be responsible for arranging any additional service connection to the temporary signal. The department will pay for all Energy Costs for the operation of the Temporary Traffic Signal.

Furnish and install a generator to operate the temporary traffic signals for the times required to switch the existing permanent traffic signal over to the temporary traffic signal and for the time required to switch the temporary traffic signal back over to the permanent traffic signal.

Contact the local electrical utility at least four days prior to making the switch from the Temporary Traffic Signal to the new Permanent Traffic Signal.

Append standard spec 661.2.1 (6) with the following:

(6) Control equipment or controller equipment is defined as anything inside the control cabinet excluding the department furnished signal controller, cellular modem, and ethernet switch.

Replace standard spec 661.3.1 (2) with the following:

(2) Request a signal inspection of the completed temporary traffic signal installation to the engineer at least five working days prior to the time of the requested inspection. Notify the SE Region Electrical Field Unit at (414) 266-1170 to coordinate the inspection. The SE Region electrical personnel will perform the inspection.

Append standard spec 661.3.1.4 (4) with the following:

(4) Arrange for every other week inspections with the engineer to check the height of the span wire above the roadways to ensure that the bottom of the traffic signal heads remain within the minimum and maximum heights allowed above the roadway. Make all height adjustments within 1-hour of an inspection indicating that adjustments are required. Notify the engineer in writing upon completion of all necessary adjustments. Maintain a written log to properly document the date of each every other week inspection, the heights above the roadway, the roadway clearance after adjustments have been made, and acceptance by the engineer. Provide all documentation related to the every other week span wire height checks as well as all records related to maintenance performed on the temporary traffic signal installations to the engineer.

Replace standard spec 661.3.2.6 (2) with the following:

(2) Upon acceptance of new signal and completion of work, the department will switch control of the intersection over to the permanent cabinet installation. Remove signal cable and wires, wood poles, wood posts, control cabinet, control equipment, and incidental materials. Upon deactivation of the controller, call the electrical utility immediately for the temporary electrical service disconnect. The department shall remove the signal controller, cellular modem, and ethernet switch.

Replace standard spec 661.3.2.7 (2) with the following:

(2) Respond within one hour of notification to provide corrective action to any emergency such as but not limited to knockdowns, signal cable problems, and controller equipment failures. If equipment becomes damaged or faulty beyond repair, replace it within one working day. In order to fulfill this requirement, maintain, in stock, sufficient materials and equipment to provide repairs. Replace the traffic signal control equipment including the cabinet and cabinet accessories within 4 hours. If the outcome of the response identifies damage to the department furnished signal controller, notify the Traffic Management Center at (800) 375-7302 who will then dispatch the SE Region Electrical Field Unit

Replace standard spec 661.5 (2) with the following:

(2) Payment for the Temporary Traffic Signals for Intersections bid item is full compensation for providing, maintaining, and repairing the complete temporary installation; and for removal. Payment also includes the following:

1. Furnishing and installing replacement equipment.
2. The cost of delivery and pick-up of the cabinet assemblies.

Payment is full compensation for drilling holes; furnishing and installing all materials, including bricks, and coarse aggregate; for excavation, bedding, and backfilling, including any sand or other required materials; furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; for making inspections; for cleaning up and properly disposing of waste.

104. Install Pole Mounted Cabinet, Item 673.1225.S.

A Description

This special provision describes installing department furnished aluminum enclosures on poles for intelligent transportation systems equipment.

B Materials

Use stainless steel bolts, nuts, and washers unless otherwise specified.

All conductors, terminals, and parts that could be hazardous to maintenance personnel shall be protected with suitable insulating material.

The cabinet will be equipped with service panels. Two panels shall be provided and mounted on the cabinet sidewalls. The left side panel shall be designated as "Input/Communications," and the right side panel shall be designated as the "Service Panel."

The service panel will be equipped with a four-outlet handi-box. Wire the handi-box to the series portion of the filtering surge protector.

Use metallic conduit, fittings, and adapters required from the underground conduit transition point to the cabinet as part of this item. A typical installation requires on 2-inch conduit. Use metallic conduit conforming to standard spec 652.

C Construction

Coordinate receiving the cabinet from the department’s vendor and protect and store the cabinet between receiving the cabinet and installing as shown on the plans. Note and photograph any damage to the cabinet upon receipt and notify the engineer and the Statewide ITS Engineer of any damage.

Fasten the field cabinet securely onto a pole. Provide bolted stainless steel connections with lock washers, locking nuts, or other engineer-approved means to prevent the connection nuts from backing off. Isolate dissimilar materials from one another using stainless steel fittings. Make all power connections to the cabinet as specified in standard spec 656.

Drill and tap the cabinet, as necessary, to mount the terminal blocks and other attachments to the service panel, to provide an entrance on the back of the cabinet for cable from the pole mounted intelligent transportation systems equipment, and to mount the service panel to the cabinet as shown in the details. Remove all sharp edges or burrs, or both, caused by the cutting or drilling process. Seal all openings to prevent water from entering the cabinet. Mount the surge protector to the service panel.

Install metallic conduit on the exterior of the pole (for entrance to the cabinet from the ground) as the plans show, and according to the applicable requirements of standard spec 652.

D Measurement

The department will measure Install Pole Mounted Cabinet 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
673.1225.S	Install Pole Mounted Cabinet	EACH

Payment is full compensation for storing the pole mounted cabinet, installing the pole mounted cabinet; for making all connections and conduit/wire entrances; and for all testing.

stp-673-010 (20230629)

105. Removing 50-Foot Camera Pole, Item 677.9051.S.

A Description

This special provision describes removing existing camera poles and all equipment mounted on them.

B (Vacant)

C Construction

The contractor may request a meeting with the engineer to assess the condition and operability of equipment mounted on the pole before beginning work removing the pole. Any damage or improper operation not noted at the meeting, or before the contractor starting work on the removal, will be assumed to be the fault of the contractor; repair or replace the equipment. Store the equipment for pick up by department representatives.

Disconnect all cables, wiring and equipment that are mounted on or in the poles, and remove the pole from the concrete footing. The department will pick up any antennae, cameras, or other equipment mounted on the pole; contact maintenance staff at (414) 227-2166 at the department's Statewide Traffic Operations Center, when the material is ready to be picked up. Properly dispose of the pole, conduit, cabling, and wiring away from the project site.

D Measurement

The department will measure Removing (Height) Camera Pole by the unit, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
677.9051.S	Removing 50-Foot Camera Pole	EACH

Payment is full compensation for removing and disposing of the existing camera pole; disconnecting any necessary wiring; removing the equipment mounted on the poles; disposing of cabling and wiring; disposing of the pole properly off the project site; and transportation.

stp-677-901 (20230629)

106. Install Overhead Freeway DMS Full Matrix, Item 678.0100.S.

A Description

This special provision describes installing a state-furnished, or an existing salvaged, dynamic message sign on a new or existing sign structure.

B Materials

The department will provide the sign, or it will be salvaged, controller, and the control cable. The control cable will be multi-mode fiber optic cable.

Use an AWG #6 copper wire or equivalent bonding straps to bond the sign and cabinet to the structure. Use an AWG #6 solid, bare copper wire to bond the sign structure to ground rods.

1. For the three wires carrying 120/240 VAC power from the cabinet to the sign, use single conductor, stranded copper, 120/240 VAC, XLP insulated, USE rated wire. Size the wire to carry the maximum amperage permitted by the main breakers in the sign.

Provide a 100-amp 120/240-VAC load center in the controller cabinet, along with breakers recommended by the sign manufacturer.

C Construction

Within two weeks of Notice to Proceed, contact the engineer and Statewide ITS Engineer, Dean Beekman at (414) 227-2154). Provide the address and contact information for the contractor-controlled location for delivery and the desired delivery schedule for the DMS. The department will coordinate with the department's contracted DMS vendor for delivery as close as possible to desired delivery date.

The contractor may request that the engineer or other department representative be present at delivery to witness condition of the DMS, controller, and cable. Photograph and note any damage or irregularities in the materials being delivered. The engineer or department representative will coordinate resolution of any damage or irregularities with the DMS vendor. Store the DMS while resolution is being coordinated with the DMS vendor.

Store the DMS, controller, and controller cable in a safe and secure location until installation.

Transport the DMS, controller, and controller cable to the installation site.

Install the load center so that the main breakers control all power to the sign and cabinet. Provide at least three branch circuits, one for the sign, one for the controller and communication equipment, and one for all cabinet accessories, such as fan, light, and heater. Only protect the branch serving the controller and communication equipment with the second stage of the surge protector. Connect the power and control cables according to the manufacturer's recommendations. Run the cables in rigid metallic conduit or flexible metallic conduit, or combination of these, within the sign structure.

Bond the sign directly to one or more ground rods per the manufacturer's instructions and Article 250 of the NEC. Do not bond the sign to the structure. Use exothermic welding at each end of the ground wire. Use an AWG # 6 solid, bare copper wire to bond the sign structure to the ground rod(s). Use a device that measures resistance to ground using the three-point fall-of-potential method to ensure that the resistance from the sign's ground bar to ground does not exceed 4 ohms. Add more ground rods if necessary to achieve this requirement.

D Measurement

The department will measure Install Overhead Freeway DMS Full Matrix by each sign, acceptably installed and tested.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
678.0100.S	Install Overhead Freeway DMS Full Matrix	EACH

Payment is full compensation for fabrication and installation of all mounting hardware; receiving delivery of the DMS, controller, and cable; storing the materials until installation; transporting the materials to installation site; installing and testing the sign and controller; providing cables, conduits, and fittings; for testing the sign.

stp-678-010 (20230629)

107. Backfill Slurry, Item SPV.0035.0001.

A Description

This special provision describes furnishing and placing backfill slurry for, but not limited to, removing and abandoning utility pipes and structures, installation of storm sewer, sanitary sewer, and water pipes and structures, and exposing existing utility items as shown on the plans. Conform to 209 of the standard specs except as follows.

B Materials

Replace standard spec 209.2.2 with the following:

(1) Use well graded fine and coarse aggregate conforming to the standard combined aggregate gradation specified in table 501-4. Weigh aggregates at a batch plant suitable for batching concrete masonry. Mix and deliver to the project site using a truck mixer. Add enough water meeting the requirements of standard spec 501.2.6 to enable the mixture to flow readily.

(2) Backfill Slurry is considered a class III concrete mix. Follow the procedure in standard spec 716.2.2 for mix design certification and submittal.

C Construction

Replace standard spec 209.3 with the following:

Prior to placement of backfill slurry provide for positive drainage of the area to be backfilled. Discharge from the truck in a manner to prevent segregation. Consolidation or compaction effort will not be required. Twelve hours shall elapse before paving over the backfill.

D Measurement

Replace standard spec 209.4 with the following:

The department will measure Backfill Slurry in volume by the cubic yard of material placed, acceptably completed. 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
SPV.0035.0001	Backfill Slurry	CY

Payment is full compensation conforming to standard spec 209.5.(2) and 209.5.(5).

108. Base Patching Concrete SHES Special, Item SPV.0035.0002.

A Description

This special provision describes patching areas of existing concrete pavement with Special High Early Strength concrete as shown on the plans, according to relevant sections of standard spec 390, and as hereinafter provided.

B Materials

C Construction

Base Patching Concrete SHES Special according to standard spec 390.3.

D Measurement

The department will measure Base Patching Concrete SHES Special by the cubic yard of material placed, 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.0035.0002	Base Patching Concrete SHES Special	CY

Payment is full compensation for removing old pavement and disposing of removed materials; for preparing the foundation; for providing, curing, and protecting the concrete and for making and testing concrete cylinders and providing the test data to the engineer.

The department will pay for sawing the existing concrete pavement for removal under the Sawing Concrete bid item as specified in standard spec 690.5.

If the engineer orders the contractor to excavate yielding or unstable subgrade materials and backfill with suitable materials, the department will pay for that work either under pertinent contract bid items, or as extra work.

SER-390.1 (20170525)

109. HMA Pavement Percent Within Limits (PWL) QMP, Core Only Project; Incentive Density PWL HMA Pavement, Item SPV.0055.0001; Incentive Air Voids HMA Pavement, Item SPV.0055.0002.

A Description

This special provision describes percent within limits (PWL) pay determination, providing and maintaining a contractor Quality Control (QC) Program, department Quality Verification (QV) Program, required sampling and testing, dispute resolution, corrective action, pavement density, and payment for HMA pavements. Pay is determined by statistical analysis performed on contractor and department test results conducted according to the Quality Management Program (QMP) as specified in standard spec 460, except as modified below.

B Materials

Conform to the requirements of standard spec 450, 455, and 460 except where superseded by this special provision. The department will allow only one mix design for each HMA mixture type per layer required for the contract, unless approved by the engineer. The use of more than one mix design for each HMA pavement layer will require the contractor to construct a new test strip according to HMA Pavement Percent Within Limits (PWL) QMP Test Strip Volumetrics article at no additional cost to the department. The HMA Pavement Percent Within Limits (PWL) QMP Test Strip Density article will not be added to the Core Only Projects. The contractor may correlate gauges by taking up to 10 additional cores (non-production) at any location during the project. The department will not correlate any gauges.

Replace standard spec 460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater with the following:

460.2.8.2.1.3.1 Contracts under Percent within Limits

(1) Furnish and maintain a laboratory at the plant site fully equipped for performing contractor QC testing. Have the laboratory on-site and operational before beginning mixture production.

(2) Obtain random samples and perform tests according to this special provision and further defined in Appendix A: *Test Methods & Sampling for HMA PWL QMP Projects*. Obtain HMA mixture samples from trucks at the plant. For the sublot in which a QV sample is collected, discard the QC sample and test a split of the QV sample.

(3) Perform sampling from the truck box according to WTM R97 and four-part splitting of HMA samples according to WTM R47. Sample size must be adequate to run the appropriate required tests in addition to one set of duplicate tests that may be required for dispute resolution (i.e., retained). This requires sample sizes which yield four splits for all random sampling per sublot. All QC samples shall provide the following: QC, QV, Retained, and Extra. Take possession of the QC and Extra split samples intended for QC testing. The department will observe the splitting and take possession of the QV and Retained split samples intended for QV testing. Additional sampling details are found in Appendix A. Label samples according to WTM R97.

(4) Test the QC split sample using the test methods identified below at a frequency greater than or equal to that indicated. The Extra split sample shall be tested only when the Gmm and/or Gmb replicate tolerances are exceeded according to WTM T166 section 13.1.4 and WTM T209 section 14.1.1. When testing the Extra split sample, only the results from the test from which the tolerances were exceeded may replace the results from the QC split sample. The Rule of Retained according to CMM 836.1.2 applies.

- Blended aggregate gradations according to WTM T30.
- Asphalt content (AC) in percent.

  Determine AC using one of the following methods:

  - AC by ignition oven according to WTM T308. If the department is using an ignition oven to determine AC, conform to WTP H-003. If the department is not using an ignition oven to determine AC, IOCFs must still be reverified for any of the reasons listed in WTP H-003 Table 2 and conform to WTP H-003 section 3.
  - AC by chemical extraction according to AASHTO T164 Method A or B.
  - AC by automated extraction according to WTM D8159.
- Bulk specific gravity (Gmb) of the compacted mixture according to WTM T166.
- Maximum specific gravity (Gmm) according to WTM T209.
- Air voids (V_a) by calculation according to WTM T269.
- Voids in Mineral Aggregate (VMA) by calculation according to WTM R35 section 9.2.

(5) Lot size shall consist of 3,750 tons with sublots of 750 tons. Test each design mixture at a frequency of 1 test per 750 tons of mixture type produced and placed as part of the contract. Add a random sample for any fraction of 750 tons at the end of production for a specific mixture design. Partial lots with less than three sublot tests will be included into the previous lot for data analysis and pay adjustment. Volumetric lots will include all tonnage of mixture type under specified bid item unless otherwise specified in the plan.

(6) Conduct field tensile strength ratio tests according to WTM T283 on each qualifying mixture according to CMM 836.6.14. Test each full 50,000-ton production increment, or fraction of an increment, after the first 5,000 tons of production. Perform required increment testing in the first week of production of that increment. If field tensile strength ratio values are below the spec limit, notify the engineer. The engineer and contractor will jointly determine a corrective action.

Delete standard spec 460.2.8.2.1.5 and 460.2.8.2.1.6.

Replace standard spec 460.2.8.2.1.7 Corrective Action with the following:

460.2.8.2.1.7 Corrective Action

(1) Material must conform to the following action and acceptance limits based on individual QC and QV test results (tolerances relative to the JMF used on the PWL Test Strip):

ITEM	ACTION LIMITS	ACCEPTANCE LIMITS
Percent passing given sieve:		
37.5-mm	+/- 8.0	
25.0-mm	+/- 8.0	
19.0-mm	+/- 7.5	
12.5-mm	+/- 7.5	
9.5-mm	+/- 7.5	
2.36-mm	+/- 7.0	
75-µm	+/- 3.0	
AC in percent	-0.3	-0.5
Va		- 1.5 & +2.0
VMA in percent[1]	- 0.5	-1.0

[1] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

(2) QV samples will be tested for Gmm, Gmb, and AC. Air voids and VMA will then be calculated using these test results.

(3) Notify the engineer if any individual test result falls outside the action limits, investigate the cause and take corrective action to return to within action limits. If two consecutive test results fall outside the action limits, stop production. Production may not resume until approved by the engineer. Additional QV samples may be collected upon resuming production, at the discretion of the engineer.

(4) For any additional non-random tests outside the random number testing conducted for volumetrics, the data collected will not be entered into PWL calculations. Additional QV tests must meet acceptance limits or be subject to production stop. If the department's non-random test does not conform to the acceptance limits, the retained sample will be tested by the BTS lab. If the BTS results also do not meet the acceptance limits, the material will be considered unacceptable as described in (5) below.

(5) Remove and replace unacceptable material at no additional expense to the department. Unacceptable material is defined as any individual QC or QV tests results outside the acceptance limits or a PWL value < 50. For AC in percent, unacceptable material is defined as any individual QV test result outside of the acceptance limit. The engineer may allow such material to remain in place with a price reduction. The department will pay for such HMA Pavement allowed to remain in place at 50 percent of the contract unit price.

Replace standard spec 460.2.8.3.1.2 Personnel Requirements with the following:

460.2.8.3.1.2 Personnel Requirements

(1) The department will provide at least one HTCP-certified Transportation Materials Sampling (TMS) Technician, to observe QV sampling of HMA mixtures.

(2) Under departmental observation, a contractor TMS technician shall collect and split samples.

(3) A department HTCP-certified Hot Mix Asphalt, Technician I, Production Tester (HMA-IPT) technician will ensure that all sampling is performed correctly and conduct testing, analyze test results, and report resulting data.

(4) The department will make an organizational chart available to the contractor before mixture production begins. The organizational chart will include names, telephone numbers, and current certifications of all QV testing personnel. The department will update the chart with appropriate changes, as they become effective.

Replace standard spec 460.2.8.3.1.4 Department Verification Testing Requirements with the following:

460.2.8.3.1.4 Department Verification Testing Requirements

(1) HTCP-certified department personnel will obtain QV random samples by directly supervising HTCP-certified contractor personnel sampling from trucks at the plant. Sample size must be adequate to run the appropriate required tests in addition to one set of duplicate tests that may be required for dispute resolution (i.e., retained). This requires sample sizes which yield four splits for all random sampling per sublot. All QV samples shall furnish the following: QC, QV, Retained, and Extra. The department will observe the splitting and take possession of the QV, Retained, and Extra split samples intended for QV testing. The department will take possession of retained samples accumulated to date each day QV samples are collected. The department will retain samples until surpassing the analysis window of up to 5 lots, as defined in 460.2.8.3.1.7(2) of this special provision. Additional sampling details are found in Appendix A.

(2) The department will verify product quality using the test methods specified here in 460.2.8.3.1.4(3). The department will identify test methods before construction starts and use only those methods during production of that material unless the engineer and contractor mutually agree otherwise.

(3) The department will test the QV split sample using the test methods identified below at the frequency indicated. The Extra split sample will be tested only when the Gmm and/or Gmb replicate tolerances are exceeded according to WTM T166 section 13.1.4 and WTM T209 section 14.1.1. When testing the Extra split sample, only the results from the test from which the tolerances were exceeded may replace the results from the QV split sample. The Rule of Retained according to CMM 836.1.2 applies. In the event that both the department and contractor's replicate tolerances are exceeded, perform dispute resolution according to 460.2.8.3.1.7(2).

- Bulk specific gravity (Gmb) of the compacted mixture according to WTM T166.
- Maximum specific gravity (Gmm) according to WTM T209.
- Air voids (Va) by calculation according to WTM T269.
- Voids in Mineral Aggregate (VMA) by calculation according to WTM R35 section 9.2.
- Asphalt Content (AC) in percent determined by ignition oven method according to WTM T308 and conforming to WTP H-003, chemical extraction according to AASHTO T164 Method A or B, or automated extraction according to WTM D8159.

(4) The department will randomly test each design mixture at the minimum frequency of one test for each lot.

Delete standard spec 460.2.8.3.1.6.

Replace standard spec 460.2.8.3.1.7 Dispute Resolution with the following:

460.2.8.3.1.7 Data Analysis for Volumetrics

(1) Analysis of test data for pay determination will be contingent upon QC and QV test results. Statistical analysis will be conducted on Gmm and Gmb test results for calculation of Va. If either Gmm or Gmb analysis results in non-comparable data as described in 460.2.8.3.1.7(2), subsequent testing will be performed for both parameters as detailed in the following paragraph.

(2) The engineer, upon completion of the first 3 lots, will compare the variances (F-test) and the means (t-test) of the QV test results with the QC test results. Additional comparisons incorporating the first 3 lots of data will be performed following completion of the 4th and 5th lots (i.e., lots 1-3, 1-4, and 1-5). A rolling window of 5 lots will be used to conduct F & t comparison for the remainder of the contract (i.e., lots 2-6, then lots 3-7, etc.), reporting comparison results for each individual lot. Analysis will use a set alpha value of 0.025. If the F- and t-tests report comparable data, the QC and QV data sets are determined to be statistically similar and QC data will be used to calculate the Va used in PWL and pay adjustment calculations. If the F- and t-tests result in non-comparable data, proceed to the *dispute resolution* steps found below. Note: if both QC and QV Va PWL result in a pay adjustment of 102% or greater, dispute resolution testing will not be conducted. Dispute resolution via further investigation is as follows:

[1] The Retained portion of the split from the lot in the analysis window with a QV test result furthest from the QV mean (not necessarily the sublot identifying that variances or means do not compare) will be referee tested for Gmm, Gmb, and Asphalt Content by the bureau's AASHTO accredited laboratory and certified personnel. All previous lots within the analysis window are subject to referee testing and regional lab testing as deemed necessary. Referee test results will replace the QV data of the sublot(s).

[2] Statistical analysis will be conducted with referee test results replacing QV results.

iii. If the F- and t-tests indicate variances and means compare, no further testing is required for the lot and QC data will be used for PWL and pay factor/adjustment calculations.

iv. If the F- and t-tests indicate non-comparable variances or means, the Retained portion of the random QC sample will be tested for Gmm, Gmb, and Asphalt Content by the department’s regional lab for the remaining 4 sublots of the lot which the F- and t- tests indicate non-comparable datasets. The department’s regional lab and the referee test results will be used for PWL and pay factor/adjustment calculations. Upon the second instance of non-comparable variance or means and for every instance thereafter, the department will assess a pay reduction for the additional testing of the remaining 4 sublots at $2,000/lot under the HMA Regional Lab Testing administrative item.

[3] The contractor may choose to dispute the regional test results on a lot basis within 7 days after receiving results from the region. In this event, the retained portion of each sublot will be referee tested by the department's AASHTO accredited laboratory and certified personnel. The referee Gmm and Gmb test results will supersede the regional lab results for the disputed lot.

iii. If referee testing results in an increased calculated pay factor, the department will pay for the cost of the additional referee testing.

iv. If referee testing of a disputed lot results in an equal or lower calculated pay factor, the department will assess a pay reduction for the additional referee testing at $2,000/lot under the Referee Testing administrative item.

(3) The department will notify the contractor of the referee test results within 3 working days after receipt of the samples by the department's AASHTO accredited laboratory. The intent is to provide referee test results within 7 calendar days from completion of the lot.

(4) The department will determine mixture conformance and acceptability by analyzing referee test results, reviewing mixture data, and inspecting the completed pavement, this special provision, and accompanying Appendix A.

(5) Unacceptable material (i.e., resulting in a PWL value less than 50 or individual QC or QV test results not meeting the Acceptance Requirements of 460.2.8.2.1.7 as modified herein) will be referee tested by the bureau's AASHTO accredited laboratory and certified personnel and those test results used for analysis. Such material may be subject to remove and replace, at the discretion of the engineer. If the engineer allows the material to remain in place, it will be paid at 50% of the HMA Pavement contract unit price. Replacement or pay adjustment will be conducted on a sublot basis. If an entire PWL sublot is removed and replaced, the test results of the newly placed material will replace the original data for the sublot. Any remove and replace shall be performed at no additional cost to the department. Testing of replaced material must include a minimum of one QV result. [Note: If the removed and replaced material does not result in replacement of original QV data, an additional QV test will be conducted and under such circumstances will be entered into the HMA PWL Production spreadsheet for data analysis and pay determination.] The quantity of material paid at 50% the contract unit price will be deducted from PWL pay adjustments, along with accompanying data of this material.

Delete standard spec 460.2.8.3.1.8 Corrective Action.

C Construction

Replace standard spec 460.3.3.2 Pavement Density Determination with the following:

460.3.3.2 Pavement Density Determination by Cores

(1) For mainline pavement, determine density with cores. Full width passing lanes, turn lanes, or auxiliary lanes must be 1,500 lane feet or greater to be eligible for PWL density. Shoulder and appurtenance density will accepted by cores and shall have average lot (daily) densities conforming to standard spec Table 460-3 or else be subject to disincentives according to 460.5.2.2(5) herein. No density incentive will be applied to shoulders or appurtenances.

(2) The engineer will determine the target maximum density using department procedures described in WTM T355 and CMM 815. The engineer will determine density as soon as practicable after compaction and before placement of subsequent layers or before opening to traffic.

(3) A lot is defined as 7,500 lane feet with sublots of 1,500 lane feet (excluding shoulder, even if paved integrally) and placed within a single layer for each location and target maximum density category indicated in table 460-3. A partial quantity less than 750 lane feet will be included with the previous sublot. Partial lots with less than three sublots will be included in the previous lot for data analysis/acceptance and pay, by the engineer.

(4) Under the direct observation of the engineer, cut 100 or 150 mm (4 or 6 inch) diameter cores from the pavement according to WTM R67 and Table 1 at one random location, determined by the engineer, per sublot. Each core will represent the entire length and width of the sublot. Cores will be cut by the next day, except if the next day is not a working day, then they shall be cut within 48 hours after placement. Fill core holes according to WTM R67 section 5.8 and obtain engineer approval before opening to traffic. Prepare cores and determine density according to WTM T166. Dry cores after testing according WTM R79. The department will label cores, transport cores to testing facilities, witness testing, store dried cores, and provide subsequent verification testing.

Table 1: Core Density Testing[1]

Application	Test Method	Test Locations	Frequency		
Mainline	WTM R67	WTP H-002	1 / 1,500 LF		
Shoulders & Appurtenances			**Width ≤ 5 ft.**	**5 ft. < Width ≤ 9 ft.**	**Width > 9 ft.**
			1 / 4,500 LF	1 / 3,000 LF	1 / 1,500 LF

[1] Replaces Table 1 in WTP H-002 for shoulder and appurtenant testing.

(5) If a core is damaged at the time of coring, immediately take a replacement core 1 foot ahead of the existing testing location in the direction of traffic at the same offset as the damaged core. If a core is damaged during transport, record it as damaged and notify the engineer immediately.

(6) Do not re-roll compacted mixtures with deficient density test results. Do not operate continuously below the specified minimum density. Stop production, identify the source of the problem, and make corrections to produce work meeting the specification requirements.

Replace standard spec 460.3.3.3 Waiving Density Testing with Acceptance of Density Data with the following:

460.3.3.3 Analysis of Density Data

(1) As random density locations are paved, the core data will be recorded in the HMA PWL Production Spreadsheet for analysis in chronological order. Each lot will contain core density data from a single HMA mixture type placed over a specific underlying material.

(2) The department reserves the right to verify the density of any core and the department's result may be used for PWL and pay adjustment calculations, at the discretion of the engineer.

(3) The department will determine mixture density conformance and acceptability by analyzing test results, reviewing mixture data, and inspecting the completed pavement according to standard spec, this special provision, and accompanying Appendix A.

(4) Upon the completion of each lot, core data will be used by the department for PWL and pay adjustment calculation.

(5) Density resulting in a PWL value less than 50 or not meeting the requirements of 460.3.3.1 (any individual density test result falling more than 3.0 percent below the minimum required target maximum density as specified in standard spec Table 460-3) is unacceptable and may be subject to remove and replace at no additional cost to the department, at the discretion of the engineer.

iv. Replacement is conducted on a sublot basis. If an entire PWL sublot is removed and replaced, the test results of the newly placed material will replace the original data for the sublot.

v. Testing of replaced material must include a minimum of one QV result. [Note: If the removed and replaced material does not result in replacement of original QV data, an additional QV test must be conducted and under such circumstances will be entered into the data analysis and pay determination.]

vi. If the engineer allows such material to remain in place, it will be paid for at 50% of the HMA Pavement contract unit price. The extent of unacceptable material will be addressed as specified in CMM 815.11. The quantity of material paid at 50% the contract unit price will be deducted from PWL pay adjustments, along with accompanying data of this material.

D Measurement

The department will measure the HMA Pavement bid items, acceptably completed by the ton as specified in standard spec 450.4 and as follows in standard spec 460.5, as modified in this special provision.

E Payment

Replace standard spec 460.5.2 HMA Pavement with the following:

460.5.2 HMA Pavement

460.5.2.1 General

(1) Payment for HMA Pavement Type LT, MT, and HT mixes is full compensation for providing HMA mixture designs; for preparing foundation; for furnishing, preparing, hauling, mixing, placing, and compacting mixture; for HMA PWL QMP testing and aggregate source testing; for warm mix asphalt additives or processes; for stabilizer, hydrated lime and liquid antistripping agent, if required; and for all materials including asphaltic materials.

(2) If provided for in the plan quantities, the department will pay for a leveling layer, placed to correct irregularities in an existing paved surface before overlaying, under the pertinent paving bid item. Absent a plan quantity, the department will pay for a leveling layer as extra work.

460.5.2.2 Calculation of Pay Adjustment for HMA Pavement using PWL

(1) Pay adjustments will be calculated using 65 dollars per ton of HMA pavement. The HMA PWL Production Spreadsheet, including data, will be made available to the contractor by the department as soon as practicable upon completion of each lot. The department will pay for measured quantities of mix based on this price multiplied by the following pay adjustment calculated according to the HMA PWL Production Spreadsheet:

PAY FACTOR FOR HMA PAVEMENT AIR VOIDS & DENSITY

PERCENT WITHIN LIMITS *(PWL)*	*PAYMENT FACTOR, PF* *(percent of $65/ton)*
≥ 90 to 100	PF = ((PWL – 90) * 0.4) + 100
≥ 50 to < 90	(PWL * 0.5) + 55
<50	50%[1]

where PF is calculated per air voids and density, denoted $PF_{air\ voids}$ & $PF_{density}$.

[1] Any material resulting in PWL value less than 50 shall be removed and replaced unless the engineer allows such material to remain in place. In the event the material remains in place, it will be paid at 50% of the contract unit price of HMA pavement.

(2) For air voids, PWL values will be calculated using lower and upper specification limits of 2.0 and 4.3 percent, respectively. Lower specification limits for density shall be according to standard spec Table 460-3.

(3) Pay adjustment will be determined on a lot basis and will be computed as shown in the following equation.

Pay Adjustment = (PF-100)/100 x (WP) x (tonnage) x ($65/ton)*

*Note: If the Pay Factor = 50%, the contract unit price will be used in lieu of $65/ton and the weighted percentage (WP) will equal 1.0. The following weighted percentage (WP) values will be used for the corresponding parameter:

Parameter	WP
Air Voids	0.5
Density	0.5

(4) Individual Pay Factors for each air voids ($PF_{air\ voids}$) and density ($PF_{density}$) will be determined. $PF_{air\ voids}$ will be multiplied by the total tonnage placed (i.e., from truck tickets), and $PF_{density}$ will be multiplied by the calculated tonnage used to pave the mainline only (i.e., traffic lanes excluding shoulder) as determined according to Appendix A.

(5) Pay adjustment for shoulders and appurtenances accepted by department testing will be determined on a lot basis. If the lot density is less than the specified minimum in table 460-3, the department will reduce pay based on the contract unit price for the HMA pavement bid item for that lot as follows:

DISINCENTIVE PAY REDUCTION FOR HMA PAVEMENT DENSITY

PERCENT LOT DENSITY BELOW SPECIFIED MINIMUM	PAYMENT FACTOR (percent of contract price)
From 0.5 to 1.0 inclusive	98
From 1.1 to 1.5 inclusive	95
From 1.6 to 2.0 inclusive	91
From 2.1 to 2.5 inclusive	85
From 2.6 to 3.0 inclusive	70
More than 3.0[1]	___

[1] Remove and replace the lot with a mixture at the specified density. When acceptably replaced, the department will pay for the replaced work at the contract unit price. Alternatively, the engineer may allow the nonconforming material to remain in place with a 50 percent payment factor.

(6)The department will pay incentive for air voids and density under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0055.0001	Incentive Density PWL HMA Pavement	DOL
SPV.0055.0002	Incentive Air Voids HMA Pavement	DOL

(7) The department will administer disincentives under the Disincentive Density HMA Pavement and the Disincentive Air Voids HMA Pavement administrative items.

(8) The department will administer a disincentive under the Disincentive HMA Binder Content administrative item for each individual QV test result indicating asphalt binder content below the Action Limit in 460.2.8.2.1.7 presented herein. The department will adjust pay per sublot of mix at 65 dollars per ton of HMA pavement multiplied by the following pay adjustment calculated according to the HMA PWL Production Spreadsheet:

AC Binder Relative to JMF	Pay Adjustment / Sublot
-0.4% to -0.5%	75%[1]
More than -0.5%	50%[1] [2]

[1] Any material resulting in an asphalt binder content more than 0.3% below the JMF AC content will be referee tested by the department's AASHTO accredited laboratory and HTCP certified personnel using automated extraction according to automated extraction according to WTM D8159.

[2] Any material resulting in an asphalt binder content more than 0.5% below the JMF AC content shall be removed and replaced unless the engineer allows such material to remain in place. In the event the material remains in place, it will be paid at 50% of the contract unit price of HMA pavement.

Note: PWL value determination is further detailed in the *PWL Production Spreadsheet Instructions located in the Project Info and Instructions tab* of the HMA PWL Production spreadsheet.

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110. Appendix A, Core Only Project.

Test Methods & Sampling for HMA PWL QMP Projects.

The following procedures are included with the HMA Pavement Percent Within Limits (PWL) Quality Management Program (QMP) special provision:

- WisDOT Test Method for HMA PWL QMP Density Measurements for Main Production
- Sampling for WisDOT HMA PWL QMP
- Calculation of PWL Mainline Tonnage Example

WisDOT Test Method for HMA PWL QMP Density Determination for Main Production

For mainline density determination, typical sublot lengths are 1,500 lane feet and lots typically consist of 5 sublots. Partial lots with less than three sublots remaining at the end of the project will be included in the previous lot, by the engineer. The PWL Density measurements do not include the shoulder and other appurtenances. Such areas are tested by the department and are not eligible for density incentive but are subject to disincentive according to 460.5.2.2(5) of the HMA PWL QMP STSP.

Determination by Cores

For mainline density determination by cores, collect one core per sublot. Each core location is determined by the engineer using random numbers and represents the entire length and width of the sublot. The contractor is responsible for all work related to coring and filling of the core holes according to WTM R67. Each core is tested for density according to WTM T166 by the contractor and witnessed by a department representative. The department must always maintain custody of the cores during collection, transportation, and testing. Figure 5 shows an example coring layout for a 12-foot-wide lane.

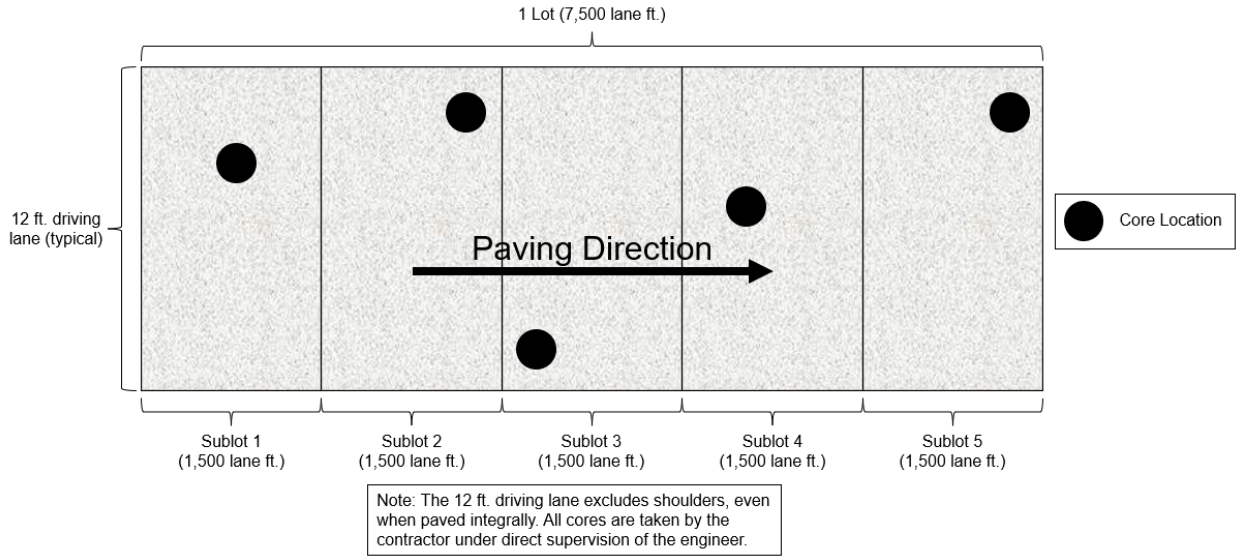


Figure 5: Example core density locations for traffic lanes

Sampling for WisDOT HMA PWL QMP Production

Sampling of HMA mix for QC, QV, Retained, and Extra split samples shall conform to WTM R97 and WTM R47.

Sampling Hot Mix Asphalt

At the beginning of the contract, the contractor determines the anticipated tonnage to be produced. The frequency of sampling is 1 per 750 tons (sublot) for QC and Retained Samples and 1 per 3,750 tons (lot or 5 sublots) for QV as defined by the HMA PWL QMP STSP. A test sample is obtained randomly from each sublot. Each random sample shall be collected at the plant according to WTM R97. The contractor must submit the random numbers for all mix sampling to the department before production begins.

Example 1

Expected production for a contract is 12,400 tons. The number of required samples is determined based on this expected production (per HMA PWL QMP SPV) and is determined by the random sample calculation.

Sample 1 – from 50 to 750 tons
Sample 2 – from 751 to 1500 tons
Sample 3 – from 1501 to 2250 tons
Sample 4 – from 2251 to 3000 tons
Sample X – .....
Sample 16 – from 11,251 to 12,000 tons
Sample 17 – from 12,001 to 12,400 tons

The approximate location of each sample within the prescribed sublots is determined by selecting random numbers using WTM D3665. The random numbers selected are used in determining when a sample is to be taken and will be multiplied by the sublot tonnage. This number will then be added to the final tonnage of the previous sublot to yield the approximate cumulative tonnage of when each sample is to be taken.

To allow for plant start-up variability, the procedure calls for the first random sample to be taken at 50 tons or greater per production day (not intended to be taken in the first two truckloads). Random samples calculated for 0-50 ton should be taken in the next truck (51-75 ton).

This procedure is to be used for any number of samples per contract.

If the production is less than the final randomly generated sample tonnage, then the random sample is to be collected from the remaining portion of that sublot of production. If the randomly generated sample is calculated to be within the first 0-50 tons of the subsequent day of production, it should be taken in the next truck. Add a random sample for any fraction of 750 tons at the end of the contract. Lot size will consist of 3,750 tons with sublots of 750 tons. Partial lots with less than three sublot tests will be included into the previous lot, by the engineer.

It's intended that the plant operator is not advised ahead of time when samples are to be taken.

If belt samples are used during troubleshooting, the blended aggregate will be obtained when the mixture production tonnage reaches approximately the sample tonnage. For plants with storage silos, this could be up to 60 minutes in advance of the mixture sample that's taken when the required tonnage is shipped from the plant.

QC, QV, Retained, and Extra split samples shall be collected for all test strip and production mixture testing using a four-part splitting procedure according to WTM R47.

Calculation of PWL Mainline Tonnage Example

A mill and overlay project in being constructed with a 12-foot traffic lane and an integrally paved 3-foot shoulder. The layer thickness is 2 inches for the full width of paving. Calculate the tonnage in each sublot eligible for density incentive or disincentive.

Solution:

$$\frac{1500\ ft\ \times\ 12\ ft}{9\ sf/sy}\ \times\ \frac{2\ in\ \times 112\ lb/sy/in}{2000\ lb/ton}\ = 224\ tons$$

111. HMA Pavement Longitudinal Joint Density, Core Only Project; Incentive Density HMA Pavement Longitudinal Joints, Item SPV.0055.0003.

A Description

This special provision incorporates longitudinal joint density requirements into the contract and describes the data collection, acceptance, and procedure used for determination of pay adjustments for HMA pavement longitudinal joint density. Pay adjustments will be made on a linear foot basis, as applicable per pavement layer and paving lane. Applicable longitudinal joints are defined as those between any two or more traffic lanes including full-width passing lanes, turn lanes, or auxiliary lanes more than 1500 lane feet, and those lanes must also include the 460.2005 Incentive Density PWL HMA Pavement bid item. This excludes any joint with one side defined as a shoulder and ramp lanes of any length. If echelon paving is required in the contract, the longitudinal joint density specification shall not apply for those joints. Longitudinal joints placed during a test strip will be tested for information only to help ensure the roller pattern will provide adequate longitudinal joint density during production. Longitudinal joint density test results collected during a test strip are not eligible for pay adjustment.

Pay is determined according to standard spec 460, HMA Pavement Percent Within Limits QMP special provisions, and as modified within.

B Materials

Compact all applicable HMA longitudinal joints to the appropriate density based on the layer, confinement, and mixture type shown in Table B-1.

TABLE B-1 MINIMUM REQUIRED LONGITUDINAL JOINT DENSITY

Layer	Percent of Target Maximum Density			
	Unconfined		Confined	
	LT and MT	HT	LT and MT	HT
Lower (on crushed/recycled base)	88	89	89.5	90.5
Lower (on Concrete/HMA)	90[1]	90[1]	91.5[1]	91.5[1]
Upper	90	90	91.5	91.5

[1] Minimum reduced by 1.0 percent for a 1.25-inch-thick No. 5 mix lower layer constructed on a paved or milled surface.

C Construction

Add the following to standard spec 460.3.3.2:

(5) Establish companion density locations for each applicable joint. Each companion location shares longitudinal stationing with the QV mainline density location within each sublot and is located transversely with the center of the core 6-inches from the final joint edge of the paving area. Sublot and lot numbering remains the same as mainline densities, however, in addition to conventional naming, joint identification must clearly indicate “M” for inside/median side of lane or “O” for outside shoulder side of lane, as well as “U” for an unconfined joint or “C” for a confined joint (e.g., XXXXX-MC or XXXXX-OU).

(6) Each joint will be measured, reported, and accepted under methods, testing times, and procedures consistent with the program employed for mainline density, i.e., PWL.

(7) For single density test results greater than 3.0% below specified minimums per Table B-1 herein, perform the following:

a) Testing at 50-foot increments both ahead and behind the unacceptable site

b) Continued 50-foot incremental testing until test values indicate higher than or equal to -3.0 percent from target joint density.

c) Materials within the incremental testing indicating lower than -3.0 percent from target joint density are defined as unacceptable and will be handled with remedial action as defined in the payment section of this document.

d) The remaining sublot average (exclusive of unacceptable material) will be determined by the first forward and backward 50-foot incremental tests that reach the criteria of higher than or equal to -3.0 percent from target joint density.

Note: If the 50-foot testing extends into a previously accepted sublot, remedial action is required up to and inclusive of such material; however, the results of remedial action must not be used to recalculate the previously accepted sublot density. When this occurs, the lane feet of any unacceptable material will be deducted from the sublot in which it is located, and the previously accepted sublot density will be used to calculate pay for the remainder of the sublot.

(8) Joint density measurements will be recorded in the HMA PWL Production Spreadsheet.

(9) Placement and removal of excess material outside of the final joint edge, to increase joint density at the longitudinal joint testing location, will be done at the contractor's discretion and cost. This excess material and related labor will be considered waste and will not be paid for by the department. Joints with excess material placed outside of the final joint edge to increase joint density or where a notched wedge is used will be considered unconfined joints.

(10) When not required by the contract, echelon paving may be performed at the contractor's discretion to increase longitudinal joint density and still remain eligible to earn incentive. The additional costs incurred related to echelon paving will not be paid for by the department. If lanes are paved in echelon, the contractor may choose to use a longitudinal vertical joint or notched wedge longitudinal joint as described in SDD 13c19 HMA Longitudinal Joints. Lanes paved in echelon shall be considered confined on both sides of the joint regardless of the selected joint design. The joint between echelon paved lanes shall be placed at the centerline or along lane lines.

(11) When performing inlay paving below the elevation of the adjacent lane, the longitudinal joint along the adjacent lane to be paved shall be considered unconfined.

D Measurement

(1) The department will measure each side of applicable longitudinal joints, as defined in Section A of this special provision, by the linear foot of pavement acceptably placed. Measurement will be conducted independently for the inside or median side and for the outside or shoulder side of paving lanes with two applicable longitudinal joints. Each paving layer will be measured independently at the time the mat is placed.

E Payment

Add the following as 460.5.2.4 Pay Adjustment for HMA Pavement Longitudinal Joint Density:

(1) The department will administer longitudinal joint density adjustments under the Incentive Density HMA Pavement Longitudinal Joints and Disincentive Density HMA Pavement Longitudinal Joints items. The department will adjust pay based on density relative to the specified targets in Section B of this special provision, and linear foot of the HMA Pavement bid item for that sublot as follows:

PAY ADJUSTMENT FOR HMA PAVEMENT LONGITUDINAL JOINT DENSITY

PERCENT SUBLOT DENSITY ABOVE/BELOW SPECIFIED MINIMUM	PAY ADJUSTMENT PER LINEAR FOOT
Equal to or greater than +1.0 confined, +2.0 unconfined	$0.20
From 0.0 to +0.9 confined, 0.0 to +1.9 unconfined	$0
From -0.1 to -1.0	$(0.20)
From -1.1 to -2.0	$(0.40)
From -2.1 to -3.0	$(0.80)
More than -3.0	*REMEDIAL ACTION* [1]

[1] Remedial action must be approved by the engineer and agreed upon at the time of the pre-pave meeting and may include partial sublots as determined and defined in 460.3.3.2(7) of this document. If unacceptable material is removed and replaced per guidance by the engineer, the removal and replacement will be for the full lane width of the side of which the joint was constructed with unacceptable material.

(2) The department will not assess joint density disincentives for pavement placed in cold weather because of a department-caused delay as specified in standard spec 450.5.2(3).

(3) The department will not pay incentive on the longitudinal joint density if the traffic lane is in disincentive. A disincentive may be applied for each mainline lane and all joint densities if both qualify for a pay reduction.

(4) Inlay paving operations will limit payment for additional material to 2 inches wider than the final paving lane width at the centerline.

The department will pay incentive for longitudinal joint density under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0055.0003	Incentive Density HMA Pavement Longitudinal Joints	DOL

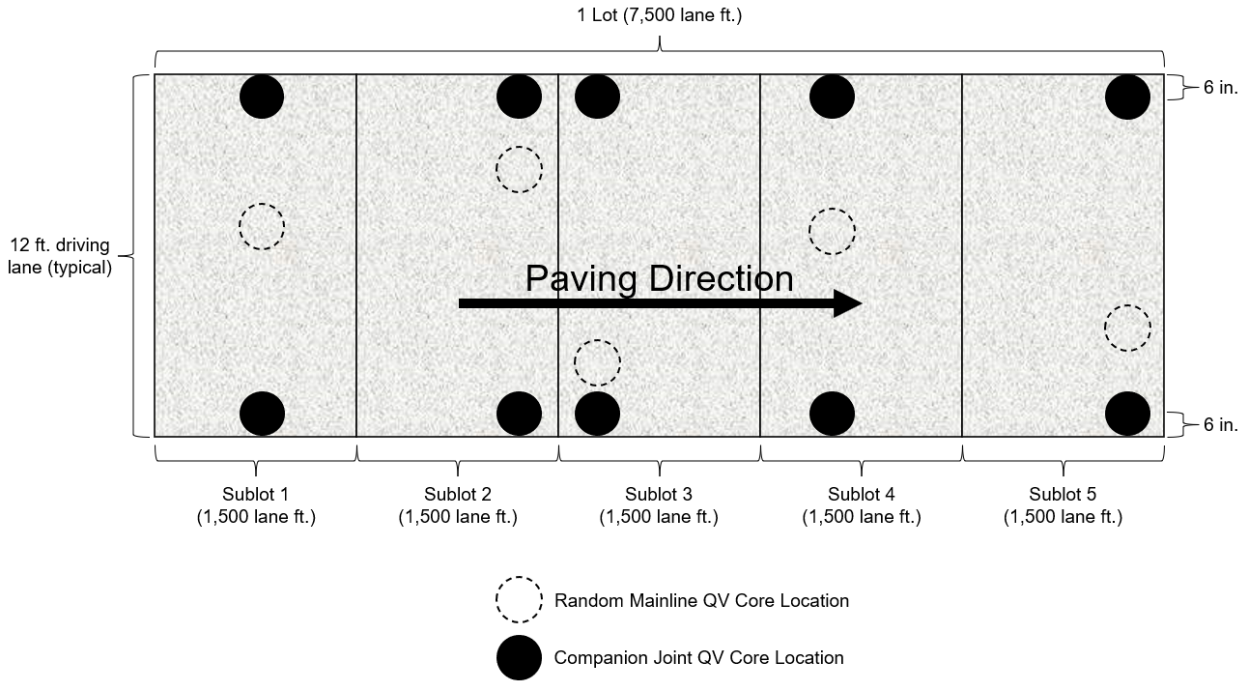
The department will administer disincentives under the Disincentive Density HMA Pavement Longitudinal Joints administrative item.

Appendix

WisDOT Longitudinal Joint – Core Density Layout

Each mainline QV density location must have a companion longitudinal joint density location for applicable joints. This companion location shares the longitudinal stationing for each QV mainline density location and is located transversely with the center of the core 6-inches from the final joint edge of the paving area.

For HMA Pavement Percent Within Limits QMP projects, this appears as follows:



Further Explanation of *PAY ADJUSTMENT FOR HMA PAVEMENT LONGITUDINAL JOINT DENSITY*

Table

	Confined				
	Lower Layer (On Base)		Upper Layer		
	LT/MT	HT	LT/MT	HT	Pay Adjust
Mainline Target (SS 460-3)	91.0	92.0	93.0	93.0	-
Confined Target (mainline - 1.5)	89.5	90.5	91.5	91.5	-
Equal to or greater than +1.0	≥ 90.5	≥ 91.5	≥ 92.5	≥ 92.5	$0.20
From 0.0 to +0.9	90.4 - 89.5	91.4 - 90.5	92.4 - 91.5	92.4 - 91.5	$0
From -0.1 to -1.0	89.4 - 88.5	90.4 - 89.5	91.4 - 90.5	91.4 - 90.5	($0.20)
From -1.1 to -2.0	88.4 - 87.5	89.4 - 88.5	90.4 - 89.5	90.4 - 89.5	($0.40)
From -2.1 to -3.0	87.4 - 86.5	88.4 - 87.5	89.4 - 88.5	89.4 - 88.5	($0.80)
More than -3.0	< 86.5	< 87.5	< 88.5	< 88.5	REMEDIAL ACTION

	Unconfined				
	Lower Layer (On Base)		Upper Layer		
	LT/MT	HT	LT/MT	HT	Pay Adjust
Mainline Target (SS 460-3)	91.0	92.0	93.0	93.0	-
Unconfined Target (Mainline -3.0)	88.0	89.0	90.0	90.0	-
Equal to or greater than +2.0	≥ 90.0	≥ 91.0	≥ 92.0	≥ 92.0	$0.20
From 0.0 to +1.9	89.9 - 88.0	90.9 - 89.0	91.9 - 90.0	91.9 - 90.0	$0
From -0.1 to -1.0	87.9 - 87.0	88.9 - 88.0	89.9 - 89.0	89.9 - 89.0	($0.20)
From -1.1 to -2.0	86.9 - 86.0	87.9 - 87.0	88.9 - 88.0	88.9 - 88.0	($0.40)
From -2.1 to -3.0	85.9 - 85.0	86.9 - 86.0	87.9 - 87.0	87.9 - 87.0	($0.80)
More than -3.0	< 85.0	< 86.0	< 87.0	< 87.0	REMEDIAL ACTION

112. Baseline CPM Progress Schedule, Item SPV.0060.0001; Monthly CPM Progress Schedule Updates, Item SPV.0060.0002.

Replace standard spec 108.4 with the following:

108.4 Critical Path Method Progress Schedule

108.4.1 Definitions

(1) The department defines terms used in 108.4 as follows:

Activity	An administrative or construction task performed during the course of the project with a defined duration, and scheduled (or actual) start and finish dates.
Critical Path	The longest continuous chain of activities through the CPM schedule that establishes the minimum overall project duration.
Construction Activity	Construction activities are discrete work activities performed by the contractor, subcontractors, utilities, or third parties within the project limits.
CPM Progress Schedule	A Critical Path Method (CPM) Progress Schedule is a network of logically related activities. The CPM schedule calculates when activities can be performed and establishes the critical or longest continuous path or paths of activities through the project.
Float	Float, as used in this special provision, is the total float of an activity; i.e., it is the amount of time between the date when an activity can start (the early start), and the date when an activity must start (the late start). In cases where the total float of an activity has a different value when calculated based on the finish dates, the lower (more critical) value will govern.
Forecast Completion Date	The completion date predicted by the latest accepted CPM Update, which may be earlier or later than the contract completion date, depending on progress.
Fragnet	A group of logically-related activities, typically inserted into an existing CPM schedule to model a portion of the project, such as the work associated with a change order.
Initial Work Plan	The initial work plan is a time-scaled CPM schedule showing detailed activities for the first 90 calendar days of work and summary level activities for the remainder of the project.
Intermediate Milestone Date	A contractually required date for the completion of a portion of the work, so that a subsequent portion of the work or stage of traffic phasing may proceed.
Master Program Schedule	The department's schedule for the overall ***Select from drop-down or edit*** Freeway Program, including intermediate milestone dates and contract completion dates, and containing codes for use as a template for the development of the contractor's schedule.
Master Project Schedule	The department's schedule for the contract work, developed during design, and provided to the contractor for informational purposes only.
Work Breakdown Structure (WBS)	A framework for organizing the activities that make up a project by breaking the project into successively greater detail by level. A WBS organizes the project work. It does not address the sequencing and scheduling of project activities.

108.4.2 Department's Master Schedules

108.4.2.1 Master Project Schedule

(1) If requested by a bidder or by the contractor, the department will supply its Master Project Schedule for the contract work, developed during design. The Master Project Schedule is not a direction on how to perform the work. The Master Project Schedule reflects one possible approach to the work, consistent with the phasing requirements.

108.4.2.2 Master Program Schedule

(1) Within five business days after award, the department will provide its current Master Program Schedule, containing intermediate milestone constraints, standard activity codes, and a standard WBS for the contractor to use to develop its schedule.

108.4.2.3 Use of Department's Master Schedules

(1) The department's Master Schedules provide information to assist the contractor in preparing its schedule. The Master Schedules are not contract documents. The logic contained in the Master Schedules is not intended to alter or supplement contract requirements for the phasing of the work, but to reflect those requirements.

108.4.3 Contractor's Scheduling Responsibilities

(1) Prepare and submit a CPM progress schedule that accurately reflects the plan for the performance of the work, based on the physical requirements of the Work, and Traffic Phasing requirements. The CPM schedule is the contractor's committed plan to complete all work within the completion deadlines. Full responsibility is assumed for the prosecution of the work as shown. The CPM schedule is not part of the contract. Schedule the Work in the manner required to achieve the completion date and intermediate milestone dates specified in the Prosecution and Progress Special Provision.

(2) Use the department-provided Master Program Schedule as a template to develop the Initial Work Plan and the Baseline CPM Progress Schedule. Use the Master Program Schedule's ID coding structure to categorize activities by Contract, Stage, Location, and Responsibility to ensure compatibility with the Master Program Schedule and with schedules prepared by other contractors. Add additional activity codes as necessary, but do not delete the coding structure provided.

(3) To ensure compatibility with the Master Program Schedule, use the latest version of Primavera P6 Project Management, by Oracle Corporation, Redwood Shores, CA, to prepare the Initial Work Plan, Baseline CPM Progress Schedule, and Monthly CPM Updates.

(4) Designate a Project Scheduler who will be responsible for scheduling the Work and submit a professional resume describing a minimum of three years of scheduling experience on urban, interstate-highway reconstruction work of similar size and complexity, including recent experience with P6.Obtain approval of the submitted resume before scheduling the work.

108.4.4 Submittals

108.4.4.1 Initial Work Plan

(1) Within ten business days after the Initial Work Plan Workshop, as scheduled in section 103.10, submit an Initial Work Plan as follows:

1. Develop the Initial Work Plan using the Master Program Schedule as a template. Identify the contemplated start and completion dates for each activity.
2. Provide a detailed plan of activities to be performed within the first 90 calendar days of the contract. Provide construction activities with durations not greater than 28 calendar days (20 business days), unless the engineer accepts requested exceptions.
3. Provide activities as necessary to depict administrative work, including submittals, reviews, and procurements that will occur within the first 90 calendar days of the contract. Show additional activities that require department review or approval. Activities other than construction activities may have durations greater than 28 calendar days (20 business days). Allow 21 calendar days (15 business days) for department review of submittals.
4. Provide summary activities for the balance of the project. Summary activities may have durations greater than 28 calendar days (20 business days).
5. Submit three copies of the Initial Work Plan in a compressed (XER) format on three separate CDs.
6. The engineer will accept the contractor's Initial Work Plan or provide comments within five business days after receipt of the Initial Work Plan. Address comments and resubmit the Initial Work Plan as necessary. Do not begin work until the engineer accepts the Initial Work Plan. The department will use the initial work plan to monitor the progress of the work until the Baseline CPM Progress Schedule is accepted.
7. Submit an updated version of the Initial Work Plan monthly until the engineer accepts the Baseline CPM Progress Schedule. With each update, include actual start dates, completion percentages, and remaining durations for activities started but not completed. Include actual finish dates for completed activities.
8. Ensure the Initial Work Plan shows completing the work within the interim completion dates and specified completion date.
9. Include activities that describe essential features of the work and activities that might potentially delay contract completion. Identify activities that are controlling items of work.

108.4.4.2 Baseline CPM Progress Schedule

(1) Submit a Baseline CPM Progress Schedule and written narrative. The department will use the schedule to monitor the progress of the work.

1. Develop the Baseline CPM using the Master Program Schedule as a template. The Baseline CPM is the contractor's committed plan to complete the Work within the time frames required to achieve the contract completion date and intermediate milestone dates.
    1.1. Provide a detailed plan of activities to be performed during the entire contract duration, including all administrative and construction activities required to complete the work as described in the contract documents. Provide construction activities with durations not greater than 28 calendar days (20 business days), unless the engineer accepts requested exceptions.
    1.2. Provide activities as necessary to depict administrative work, including submittals, reviews, procurements, inspections, and all else necessary to complete the work as described in the contract documents. Activities other than construction activities may have durations greater than 28 calendar days (20 business days). Allow 21 calendar days (15 business days) for department review of submittals.
    1.3. Submit a temporary drainage plan showing the interface between various stages of a project as well as the interface with adjacent projects.
    1.4. Include activities that describe essential features of the work and activities that might potentially delay contract completion. Identify activities that are controlling items of work.
    1.5. Show completing the work within interim completion dates and the specified completion date.
    1.6. Provide summary activities for the balance of the project. Summary activities may have durations greater than 28 calendar days (20 business days).
    1.7. Provide activities as necessary to depict third party work related to the contract.
    1.8. Make allowance for specified work restrictions, non-working days, time constraints, calendars, and weather; and reflect involvement and reviews by the department, and coordination with adjacent contractors, utility owners, and other third parties.
    1.9. With the exception of the Project Start Milestone and Project Completion Milestone, all activities must have predecessors and successors. The start of an activity shall have a Start-to-Start or Finish-to-Start relationship with preceding activities. The completion of an activity shall have a Finish-to-Start or Finish-to-Finish relationship with succeeding activities. Do not use Start-to-Finish relationships. Do not use Finish-to-Start relationships with a lag unless the engineer accepts requested exceptions.
    1.10. Schedule all intermediate milestones in the proper sequence and input as either a "Start-no-Earlier-Than" or "Finish-no-Later-Than" date. Provide predecessors and successors for each intermediate milestone as necessary to model each Stage of the Work. Unless the engineer accepts a requested exception, the schedule should encompass all the time in the contract period between the starting date and the specified completion date.
    1.11. Using the bid quantities and unit prices, develop an anticipated cash-flow curve for the project, based on the Baseline CPM.
2. Provide three hard copies of a hand-drawn or electronically drafted logic diagram depicting the CPM network. Organize the logic diagram by grouping related activities, based on the activity codes in the CPM.
3. Provide a written narrative with the baseline CPM explaining the planned sequence of work, as-planned critical path, critical activities for achieving intermediate milestone dates, traffic phasing, and planned labor and equipment resources. Use the narrative to further explain:
    3.1. The basis for activity durations in terms of production rates for each major type of work (number of shifts per day and number of hours per shift), and equipment usage and limitations.
    3.2. Use of constraints.
    3.3. Use of calendars.
    3.4. Estimated number of adverse weather days on a monthly-basis.
    3.5. Scheduling of permit and environmental constraints, and coordination of the schedule with other contractors, utilities, and public entities.

(1) Submit three copies of the Baseline CPM in a compressed (XER) format on three separate CDs.

(2) Within ten business days of receiving the Baseline CPM, the engineer will provide comments and schedule a meeting for the contractor to present its Baseline CPM and answer questions raised in the engineer's review.

(3) At the meeting scheduled by the engineer, provide a presentation of the Baseline CPM. In the presentation, include a discussion of the staging and sequencing of the work, understanding of traffic phasing, and application of labor and equipment resources to the Work. Address comments raised in the engineer's review.

(4) Within five business days after the meeting, the engineer will accept the contractor's Baseline CPM schedule or provide comments. Address the engineer's comments and resubmit a revised Baseline CPM within ten business days after the engineer's request. If the engineer requests justification for activity durations, provide information that may include estimated labor, equipment, unit quantities, and production rates used to determine the activity duration.

(5) The department will only make progress payments for the value of materials, as specified in 109.6.3.2, until the contractor has submitted the Baseline CPM Schedule. The department will retain 10 percent of each estimate until the department accepts the Baseline CPM Schedule.

(6) The engineer will accept the Baseline CPM based solely on whether the schedule is complete as specified in this section. The engineer's acceptance of the schedule does not modify the contract or validate the schedule.

(7) The department will not consider requests for contract time extensions as specified in 108.10 or additional compensation for delay specified in 109.4.7 until the department accepts the Baseline CPM schedule.

108.4.4.3 Monthly CPM Updates

(1) Submit CPM Updates on a monthly basis after acceptance of the Baseline CPM as follows:

1. Include actual start dates, completion percentages, and remaining durations for activities started but not completed, and actual finish dates for completed activities, through the final acceptance of the project.
2. Include additional activities as necessary to depict additions to the contract by changes and logic revisions as necessary to reflect changes in the contractor's plan for prosecuting the work.
3. Include a narrative report that includes a brief description of monthly progress, changes to the critical path from the previous update, sources of delay, potential problems, work planned for the next 30 calendar days, and changes to the CPM schedule. Changes to the logic of the CPM schedule include the addition or deletion of activities and changes to activity descriptions, original durations, relationships, constraints, calendars, or previously recorded actual dates. Justify changes to the CPM schedule in the narrative by describing associated changes in the planned methods or manner of performing the work or changes in the work itself.
4. Submit three copies of each CPM Update in a compressed (XER) format electronically, as agreed to with the department.
5. If additions or changes were made to the CPM schedule since the previous update, submit an updated hard copy of the revised logic diagram.

(2) Within five business days of receiving each CPM Update, the engineer will provide comments and schedule a meeting as necessary to address comments raised in the engineer's review. Address the engineer's comments and resubmit a revised CPM Update within five business days after the engineer's request.

108.4.4.4 Three-Week Look-Ahead Schedules

(1) Submit Three-Week Look-Ahead Schedules on a weekly basis after the notice to proceed (NTP). The schedule can be hand drawn or generated by computer. With each Three-Week Look-Ahead include:

1. Activities underway and as-built dates for the past week.
2. Actual as-built dates for completed activities through final acceptance of the project.
3. Planned work for the upcoming two-week period.
4. The activities underway and critical RFIs and submittals, based on the CPM schedule.
5. Details on other activities not individually represented in the CPM schedule.

(2) On a weekly basis, the department and the contractor shall agree on the as-built dates depicted in the Three-Week Look-Ahead schedule or document all disagreements. Use the as-built dates from the Three-Week Look-Ahead schedules for the month when updating the CPM schedule.

108.4.4.5 Weekly Production Data

(1) Provide estimated and actual weekly production rates for items of work on a weekly basis as follows:

1. Data on the following items by area or station:
    1.1. Retaining Walls
        1.1.1. Leveling Pads - LF
        1.1.2. Set Panels - SF
        1.1.3. Parapets - LF
        1.1.4. Wall Face - Bay
        1.1.5. Tie Backs – Each
        1.1.6. Anchor Slabs – LF
        1.1.7. Drilling - Each
        1.1.8. Coping – LF
        1.1.9. Footing - LF

1.2. Bridge Construction
    1.2.1. Footings—Each
    1.2.2. Columns—Each
    1.2.3. Abutments—Each
    1.2.4. Pier Caps—Each
    1.2.5. Girder Spans – Each
    1.2.6. Decked Spans – Each
    1.2.7. Poured Spans – Each
1.3. Roadway Excavation—CY per week
1.4. Roadway Structural Section
    1.4.1. Grading/Subgrade Preparation—SY
    1.4.2. Base Material Placement—Ton
    1.4.3. Base Material Subgrade Preparation—SY
    1.4.4. Asphalt Pavement—Ton
    1.4.5. Concrete Pavement – SY
1.5. Tunnels
    1.5.1. Drilled Shafts – Each
    1.5.2. Beam Seat/Cap - LF
    1.5.3. Girders - Each
    1.5.4. Deck – Percent
1.6. Noise Walls
    1.6.1. Drill/Set Ground Mounted Posts - Each
    1.6.2. Install Ground Mounted Panels - Each
    1.6.3. Anchor/Set Structure Mounted Posts - Each
    1.6.4. Install Structure Mounted Panels - Each

2. The actual daily production for the past week and the anticipated weekly production for the next week.

(2) Submit the data in an electronic spreadsheet format at the same time the Three-Week Look-Ahead is submitted. On a weekly basis, the department and the contractor shall agree on the production data or document all disagreements.

108.4.5 Progress Review Meetings

108.4.5.1 Weekly Progress Review Meetings

(1) After completing the weekly submittal of the Three-Week Look-Ahead and production data, attend a weekly meeting to review the submittals with the department. At the meeting, address comments as necessary, and document agreement or disagreement with the department.

108.4.5.2 Monthly Update Review Meetings

(1) After submitting the monthly update and receiving the engineer's comments, attend a job-site meeting, as scheduled by the engineer, to review the progress of the schedule. At that meeting, address comments as necessary, and document agreement or disagreement with the department. The monthly meeting will be coordinated to take place on the same day and immediately before or after a weekly meeting, whenever possible.

108.4.6 CPM Progress Schedule Revisions

(1) Revision by the contractor if necessary due to changes in the Work or project conditions and authorized by the engineer, a CPM Progress Schedule Revision may be submitted, although the next Monthly CPM Update is not yet due. Prepare the CPM Revision in the same format as required for Monthly CPM Updates, including justification for changes to the schedule. The process for comment and acceptance of a CPM Revision will be the same as for Monthly CPM Updates. If the CPM Revision is accepted, prepare the next monthly update based on the revised CPM. If the CPM Revision is rejected, prepare the next monthly update based on the previous month's update.

(2) Engineer's Right to Request Revisions—The engineer will monitor the progress of the work and may request revisions to the CPM schedule. Revise the schedule as requested by the engineer, and submit a CPM Progress Schedule Revision within ten business days of the request. The process for comment and acceptance of a CPM Revision will be the same as for Monthly CPM Updates. The engineer may request that the contractor revise the CPM schedule for one or more of the following reasons:

1. The forecast completion date is scheduled to occur more than 14 calendar days after the contract completion date.
2. An intermediate milestone is scheduled to occur more than 14 calendar days after the date required by the contract.
3. The engineer determines that the progress of the work differs significantly from the current schedule.
4. A contract change order requires the addition, deletion, or revision of activities that causes a change in the contractor's work sequence or the method and manner of performing the work.

108.4.7 Documentation Required for Time Extension Requests

(1) To request a time extension to an intermediate milestone date or the contract completion date associated with changes to the work, provide a narrative detailing the work added or deleted and the other activities affected, based on the latest accepted CPM Update. For added work, submit a proposed fragnet of activities to be added or revised in the CPM schedule, indicating how the fragnet is to be tied to the CPM schedule.

(2) To request a time extension to an intermediate milestone date or the contract completion date associated with delays to the work, provide a narrative detailing the affected activities and the cause of the delay, based on the latest accepted CPM Update. Requests for time extensions due to delays should meet the following criteria:

1. For requests to extend the contract completion date, include a description of how the delay affected the project's critical path, based on the latest accepted CPM Update.
2. For requests to extend an intermediate milestone date, include a description of how the delay affected the controlling (longest) path to the milestone, based on the latest accepted CPM Update.
3. The department and the contractor agree that the float is not for the exclusive use or financial benefit of either party. Either party has the full use of the float on a first come basis until it is depleted.

108.4.8 Payment for CPM Progress Schedule

(1) The department will pay for measured quantities at the contract unit price for work acceptably completed under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0001	Baseline CPM Progress Schedule	EACH
SPV.0060.0002	Monthly CPM Progress Schedule Updates	EACH

(2) The department will only make progress payments for the value of materials, as specified in 109.6.3.2.1, until the Baseline CPM schedule has been submitted. The department will retain ten percent of each estimate until the department accepts the Baseline CPM schedule.

(3) The department will only make progress payments for the value of materials, as specified in 109.6.3.2.1, until the Monthly CPM schedule updates have been submitted. The department will retain ten percent of each estimate until the department accepts the Monthly CPM schedule update.

(4) Payment is full compensation for all work required under these bid items. The department will pay the contract unit price for the Baseline CPM schedule after the department accepts the schedule. Then, the department will pay the contract unit price for each Monthly CPM Update acceptably completed.

sef-108-005 (20180404)

113. Concrete Barrier Type S42 End Anchor, Item SPV.0060.0003.

A Description

This special provision describes constructing end anchorages for single slope concrete barrier conforming to standard spec 603, details shown in the plans and as modified in this special provision.

B (Vacant)

C Construction

Construct the Concrete Barrier Type S42 to present a smooth, uniform appearance in its final position conforming to the horizontal and vertical lines the plans show or ordered by the engineer, and free of lumps, sags or other irregularities.

D Measurement

The department will measure Concrete Barrier Type S42 End Anchor as each individual end anchor, 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.0060.0003	Concrete Barrier Type S42 End Anchor	EACH

Payment is full compensation for providing the barrier end anchor; for excavating and backfilling; for disposing of excess material; and for restoring the grade.

sef-603-005 (20170310)

114. Fastening Sewer Access Covers, Item SPV.0060.0004

A Description

This special provision describes sealing, maintaining, and removing sealant for sewer access covers.

B Materials

Furnish preformed butyl rubber-based sealant conforming to ASTM C990 Section 6.2. Size the preformed joint sealant to fill the joint to 50% of its annular volume when assembled.

C Construction

Open the sewer access cover, inspect the frame and grate, and remove material that will interfere with the sealant application from the cover and casting. Apply sealant in a continuous ring around the frame without stretching. Knead the ends together with no overlap.

Monitor performance during the project and maintain as needed. Remove sealant after traffic is shifted into its final configuration.

D Measurement

The department will measure Fastening Sewer Access Covers as each individual 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.0060.0004	Fastening Sewer Access Covers	EACH

Payment is full compensation for providing and maintaining sealed covers; and removing sealant.

sef-611-015 (20180104)

115. Traffic Control Close-Open Freeway Entrance Ramp, Item SPV.0060.0005.

A Description

This special provision describes closing and re-opening a freeway entrance ramp and associated auxiliary lane.

B (Vacant)

C Construction

Install or reposition traffic control devices required for closing a freeway entrance ramp and adjacent auxiliary lanes. Remove or return traffic control devices to their previous configuration when the closure is no longer required.

D Measurement

The department will measure Traffic Control Close-Open Freeway Entrance Ramp by each individual ramp closure, 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. 0060.0005	Traffic Control Close-Open Freeway Entrance Ramp	EACH

Payment is full compensation for closing and re-opening the freeway entrance ramp. Traffic Control devices will be paid separately.

sef-643-001 (20190828)

116. Traffic Control Full Freeway Closure, Item SPV.0060.0006.

A Description

This special provision describes closing and re-opening a freeway or expressway.

B (Vacant)

C Construction

Install or reposition traffic control devices required for a full freeway closure. Remove or return traffic control devices to their previous configuration when the full closure is no longer required.

D Measurement

The department will measure Traffic Control Full Freeway Closure by each individual freeway closure that is set up and later removed in each traffic direction, 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. 0060.0006	Traffic Control Full Freeway Closure	EACH

Payment is full compensation for closing and re-opening the freeway. Traffic Control devices will be paid separately.

sef-643-003 (20180627)

117. Traffic Control Local Road Lane Closures, Item SPV.0060.0007.

A Description

This special provision describes closing and reopening a local road lane or lanes, including full closure conforming to standard spec 643, the plans, and as directed by the engineer.

B (Vacant)

C Construction

Install or reposition traffic control devices required for closing a local road or lanes of a local road. Remove or return traffic control devices to their previous configuration when the closure is no longer required.

D Measurement

The department will measure Traffic Control Local Road Lane Closures by each individual closure, acceptably completed. The department will not measure the closure of a local road not deemed necessary by the engineer.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0007	Traffic Control Local Road Lane Closures	EACH

Payment is full compensation for closing and re-opening a local road lane or lanes.

sef-643-035 (20171004)

118. Survey Contract 1100-20-70/71, Item SPV.0060.0008.

A Description

This special provision describes modifying standard spec 105.6 and 650 to define the requirements for construction staking for this contract. Conform to standard spec 105.6 and 650 and as follows.

The department will not perform any construction staking for this contract. Obtain engineer's approval before performing all survey required to lay out and construct the work under this contract.

Replace standard spec 650.1 with the following:

This section describes the contractor-performed construction staking required under individual contract bid items to establish the horizontal and vertical position for all aspects of construction including:

- storm sewer
- subgrade
- base
- curb
- gutter
- curb and gutter
- curb ramps
- pipe culverts
- drainage structures
- structure layout
- bridges
- noise barriers
- all retaining wall layout
- pavement
- pavement markings (temporary and permanent)
- barriers (temporary and permanent)
- overhead signs
- freeway and local street lighting
- electrical installations
- supplemental control
- slope stakes
- ponds
- traffic signals
- ITS
- FTMS
- parking lots
- paths
- utilities
- conduit
- landscaping elements
- traffic control items
- fencing

B (Vacant)

C Construction

Add the following to standard spec 650.3.1 (5):

Confirm with engineer before using global positioning methods to establish the following:

1. Structure layout horizontal or vertical locations.
2. Concrete pavement vertical locations.
3. Curb, gutter, and curb and gutter vertical locations.
4. Concrete barrier vertical locations.
5. Storm Sewer layout horizontal or vertical locations, including structure centers, offsets, access openings, rim and invert elevations.

Replace standard spec 650.3.1(6) with the following:

(6) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. This includes:

- Raw data files
- Digital stakeout reports
- Control check reports
- Supplemental control files (along with method used to establish coordinates and elevation)
- Calibration report

Make the survey notes and computations available to the engineer within 24 hours as the work progresses unless a longer period is approved by the engineer.

Replace standard spec 650.3.3.1 with the following:

Under the Survey Project bid item, global positioning system (GPS) machine guidance for conventional subgrade staking on all or part of the work may be substituted. The engineer may require reverting to conventional subgrade staking methods for all or part of the work at any point during construction if the GPS machine guidance is producing unacceptable results.

Replace standard spec 650.3.3.3.4.1 with the following:

The department will provide the contractor staking packet as described in the Construction and Materials Manual (CMM) 7.10. At any time after the contract is awarded, the available survey and design information may be requested. The department will provide that information within 5 business days of receiving the contractor's request. The department incurs no additional liability beyond that specified in standard spec 105.6 or standard spec 650 by having provided this additional information.

Add the following to standard spec 650.3.3.3.6.2 as paragraph four:

Record all subgrade elevation checks and submit a hard copy to the engineer within 24 hours or as requested by the engineer.

Add the following to standard spec 650.3 as subsections 650.3.15 and 650.3.16:

D Measurement

Replace standard spec 650.4 with the following:

(1) The department will measure Survey Project 1100-20-70/71 as a separate single unit, acceptably completed.

E Payment

Replace standard spec 650.5 with the following:

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0008	Survey Project 1100-20-70/71	EACH

Payment is full compensation for performing all survey work required to lay out and construct all work under this contract and for adjusting stakes to ensure compatibility with existing field conditions. The department will not make final payment for this item until the contractor submits all survey notes and computations used to establish the required lines and grades to the engineer within 24 hours of completing this work. Re-staking due to construction disturbance and knock-outs will be performed at no additional cost to the department.

119. Mobilizations Emergency Pavement Repair, Item SPV.0060.0009.

A Description

This special provision describes furnishing and mobilizing personnel, equipment, traffic control, and materials to the project site to repair the existing pavement for emergencies as the engineer directs. An emergency is a sudden occurrence of a serious and urgent nature, beyond normal maintenance of the existing pavement.

B (Vacant)

C Construction

Mobilize with sufficient personnel, equipment, traffic control, materials, and incidentals on the jobsite within 4 hours of the engineer's written order to repair the existing pavement on an emergency basis.

D Measurement

The department will measure Mobilizations Emergency Pavement Repair as each individual mobilization acceptably completed. The department will not include delivering and installing pavement repair or maintenance materials provided for in specific contract bid items. All traffic control items used for each Mobilization will be considered incidental to the Mobilization.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0009	Mobilizations Emergency Pavement Repair	EACH

Payment is full compensation for the staged moving of personnel, moving equipment, setting up and removing traffic control, traffic control materials, and moving materials. The department will pay separately for delivery and installation of pavement repair materials under the other bid items in this contract. The department will not pay separately for traffic control items and materials even though they may be included in other bid items in this contract and will consider them incidental to each Mobilization.

sef-999-025 (20170310)

120. Marking Median Inlets Epoxy 6-inch, Item SPV.0060.0010.,

A Description

This special provision describes marking median inlet location on concrete barrier wall with epoxy marking conforming to standard spec 646, as the plans show, and as follows.

B Materials

Furnish epoxy pavement marking materials conforming of standard spec 646.2.

C Construction

Apply a 6-inch wide by 24-inch long yellow epoxy line to the concrete barrier wall centered over the median storm sewer inlet. Begin the line at the top of the barrier wall. Apply epoxy marking conforming to standard spec 646.3.

D Measurement

The department will measure Marking Median Inlets Epoxy 6-Inch by each marking, 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.0060.0010	Marking Median Inlets Epoxy 6-Inch	EACH

Payment is full compensation for providing marking.

121. Concrete Barrier Type S42 Light Pole Base, Item SPV.0060.0011; Concrete Barrier Type S42A Light Pole Base, Item SPV.0060.0012.

A Description

This special provision describes constructing barrier light pole base for single slope concrete barrier conforming to standard spec 603, details shown in the plans and as modified in this special provision.

B (Vacant)

C Construction

Construct the Concrete Barrier Type S42 and S42A to present a smooth, uniform appearance in its final position conforming to the horizontal and vertical lines the plans show or ordered by the engineer, and free of lumps, sags or other irregularities.

D Measurement

The department will measure Concrete Barrier Type S42 Light Pole Base and Type S42A Light Pole Vase as each individual light pole base, 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.0060.0011	Concrete Barrier Type S42 Light Pole Base	EACH
SPV.0060.0012	Concrete Barrier Type S42A Light Pole Base	EACH

Payment is full compensation for providing the barrier light pole base; for excavating and backfilling; for disposing of excess material; and for restoring the grade.

122. Concrete Barrier South Transition, Item SPV.0060.0013; Concrete Barrier North Transition, Item SPV.0060.0014.

A Description

This special provision describes constructing Concrete Barrier South Transition and Concrete Barrier North Transition according to standard spec 603, 652, 653, and 654, the details shown in the plans, and this special provision. These barrier transitions include a light pole base integral with each transition.

B (Vacant)

C Construction

Construct the Concrete Barrier South Transition and Concrete Barrier North Transition to present a smooth, uniform appearance in its final position conforming to the horizontal and vertical lines the plans show or ordered by the engineer, and free of lumps, sags or other irregularities.

D Measurement

The department will measure Concrete Barrier South Transition and Concrete Barrier North Transition by each individual unit, acceptably placed according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0013	Concrete Barrier South Transition	EACH
SPV.0060.0014	Concrete Barrier North Transition	EACH

Payment is full compensation for furnishing all materials; shaft drilling and backfilling; forming, placing, finishing, and curing of barrier transitions and concrete shafts; and light pole anchor bolt installation, conduits and junction boxes.

123. Utility Line Opening (ULO), Item SPV.0060.0015.

A Description

This special provision describes excavating to uncover utilities/infrastructure for the purpose of determining location and elevation and potential conflicts with proposed work as directed by the engineer. The location of existing utilities and infrastructure needed to complete the contract work shall be addressed independent of this provision. This item does not remove the contractor's obligation to locate utilities as specified by Wisconsin Administrative code Trans 220.

B (Vacant)

C Construction

Comply with s.182.0175 (2), Stats., with respect to precautions to be taken to avoid and prevent damage to utility facilities.

All ULO shall be directed by the engineer in writing. Notify the engineer and infrastructure/utility owner or their agents 3 working days in advance so that they may be present when excavation work commences.

Provide documentation to the engineer including coordinates/elevations or referenced to alignment/offset. Document the size and/or diameter, composition, and a description of each infrastructure/utility. Supply digital photographs of the uncovered infrastructure to the engineer in .jpeg format for future reference.

Backfill the excavation with suitable backfill, thoroughly compact, replace pavement over utility line opening trenches which are within the staged traffic area as directed by the engineer. Replace pavement and open to traffic within 24 hours of the excavation.

D Measurement

The department will measure ULO by each individual unit, acceptably completed. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. ULO include a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0015	Utility Line Opening (ULO)	EACH

Payment is full compensation for the excavation required to expose the utility line; measuring lateral and depth measurements of the utility line; providing required documentation of measurements to the engineer; backfilling with engineer approved material; compacting the backfill material; restoring the site; cleanup, and maintenance of ULO location during construction.

Existing pavement, concrete curb and gutter, and sidewalk removals necessary to facilitate utility line openings are not considered part of or paid for under ULO but are considered separate and measured and paid for separately as removal items. Granular backfill, pavement replacement material, concrete curb, gutter, and sidewalk items will also be considered separate from ULO and will be measured and paid for separately.

124. Field Facilities Office Space, Item SPV.0060.0016.

A Description

This special provision describes furnishing, equipping, and maintaining a field office as required in the contract at engineer-approved locations conforming to standard spec 642 and as follows.

B Materials

Provide Field Facilities Office Space conforming to standard spec 642.2.1 except delete paragraphs (1), (8), and (10).

Replace standard spec 642.2.1(4) with the following:

Provide and maintain suitable interior sanitary facilities conforming to State and local health requirements, in clean and good working condition, and stock with sanitary supplies for the duration of the contract. Furnish office space in an existing office building or existing building converted to office space with a minimum of 3,500 square feet. The facility shall have no fee parking with a minimum parking for 15 cars. The space shall include a meeting room with a minimum of 350 square feet. The exterior door(s) shall have locks in good working order and keys provided for all field staff. The office space shall be located within 2 miles of the construction project.

Equip the office as specified in standard spec 642.2.2.1 except delete paragraph (1) (2) and (5) and add the following:

1. Fifteen suitable office desks with drawers and locks.
2. Fifteen ergonomically correct office chairs in working condition with at a minimum: 5-legged base with casters, seat adjustable from 15 to 22 inches from the floor with a seamless waterfall, rounded, front edge, and high backrest with no arms or adjustable arms.
3. Four 6-foot folding tables.
4. One 10-foot folding table.
5. Five 2-drawer file cabinets.
6. Three 4-shelf bookcases.
7. Twenty folding chairs.

Provide for the professional cleaning of the field office during regular business hours twice monthly. 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, snow, and wind-driven debris. Provide regularly scheduled recycling and waste pick-up.

C Construction

Conform to standard spec 642.3 except delete paragraph (2).

D Measurement

The department will measure the Field Facilities Office Space as each 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.0060.0016	Field Facilities Office Space	EACH

Payment is full compensation for providing, equipping, securing, and maintaining the facility; for parking, for telecommunications equipment, installation, and service fees; and for providing bottled water, utilities, fuel, ventilation, and toilet facilities as required, either independently or jointly with the field laboratory, for the time specified in standard spec 642.3.

The department will pay for the cost of telecommunications usage fees incurred by department staff.

(20240110)

125. Drainpipe Exploration, Item SPV.0060.0017.

A Description

This special provision describes excavating to uncover a drainpipe in the approximate range of Station 221+00 to Station 223+00 LT for the purpose of determining location and elevation and potential conflicts with proposed work as directed by the engineer. The pipe originates from the Penzeys Spice property and drains into the ditch west of the I-41 southbound entrance ramp.

B (Vacant)

C Construction

Comply with s.182.0175 (2), Stats., with respect to precautions to be taken to avoid and prevent damage to other utility facilities.

Notify the engineer and drainpipe owner 3 working days in advance so that they may be present when excavation work commences. Locate the drainpipe before grading the ditch to avoid unnecessary damage to the pipe.

Provide documentation to the engineer including coordinates/elevations or referenced to alignment/offset. Document the size and/or diameter, composition, and a description of the drainpipe. Supply digital photographs of the uncovered pipe to the engineer in .jpeg format for future reference.

Backfill the excavation with suitable backfill, thoroughly compact, and daylight the pipe as directed by the engineer.

D Measurement

The department will measure drainpipe exploration 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.0060.0017	Drainpipe Exploration	EACH

Payment is full compensation for the excavation required to expose the drainpipe; measuring lateral and depth measurements of the drainpipe; providing required documentation of measurements to the engineer; backfilling with engineer approved material; compacting the backfill material; restoring the site; cleanup, and daylighting the pipe.

126. Emergency Inlet Repair, Item SPV.0060.0018.

A Description

This special provision describes furnishing and mobilizing personnel, equipment, traffic control, labor, and materials to the project site to repair the existing and proposed mainline inlets for emergencies as the engineer directs. An emergency is a sudden occurrence of a serious and urgent nature, beyond normal maintenance of the inlets.

B (Vacant)

C Construction

Mobilize with sufficient personnel, equipment, traffic control, materials, and incidentals on the jobsite within 4 hours of the engineer's written order to repair the inlets on an emergency basis.

D Measurement

The department will measure Emergency Inlet Repair as each individual inlet acceptably completed. The department will not include delivering and installing pavement repair or maintenance materials provided for in specific contract bid items. All traffic control items used for each Repair will be considered incidental to the Repair.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0018	Emergency Inlet Repair	EACH

Payment is full compensation for the staged moving of personnel, moving equipment, setting up and removing traffic control, traffic control materials, and moving materials. And also full compensation for reconstructing or adjusting the inlet; barrier removal, replaced, or temporary thrie beam connectors; and sawing. The department will not pay separately for items and materials even though they may be included in other bid items in this contract and will consider them incidental to each inlet repair.

127. Emergency Response to Traffic Involving Concrete Barrier Temporary, Item SPV.0060.0019.

A Description

This special provision describes providing prompt response to an emergency repair request for damaged and/or dislodged temporary concrete barrier installed under this project that is damaged or displaced due to a vehicular collision during the time this contract is in effect.

B (Vacant)

C Construction

The contractor shall provide staff, equipment, and material to the incident site within one hour of receiving a repair request from the responding agency. The contractor shall consult with the department's representative on potential repair or replacement options to restore the temporary concrete barrier to proper working condition. Staff and equipment deployed shall be capable of completing the needed repairs as quickly as possible once repair work is started. Repair work shall be completed off the traveled way to the maximum extent allowable. The contractor shall provide a time log of when the repair request was received and when staff arrived at the incident site. This information shall be submitted to the engineer, for verification, within 24 hours of the repair completion.

Contact information for the contractor's responsible party (the person or persons in charge of coordinating and completing repair efforts) shall be submitted to the engineer at the pre-construction meeting. This person(s) shall be available 24/7 during the duration of this contract. The contact information for the department's representative will be supplied to the contractor at the pre-construction meeting.

If the contractor fails to be on the site of an incident with appropriate staff and equipment within one hour of receiving a repair request, the department will assess the contractor $500 in liquidated damages for each 15-minute interval that the contractor is not present following the allotted on-hour response time.

Increments of 15 minutes or less will be assess as a 15-minute increment. The engineer, or designated representative, will be the sole authority in determining assessable 15-minute increments. Liquidated damages will be assessed under the administrative item Failing to Open Road to Traffic.

For contractor owned temporary barrier, repair work shall be completed according to standard spec 603 and 643, and as directed by the engineer. For temporary barrier left in place from a previous project, repair work is covered under article Maintain and Remove Concrete Barrier Temporary Precast of these special provisions.

Additional traffic control measures may be required depending on the severity and duration of the incident. The contractor shall provide any needed traffic control measures as directed by the department's representative.

D Measurement

The department will measure Emergency Response to Traffic Involving Concrete Barrier Temporary as each individual response, 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.0060.0019	Emergency Response to Traffic Involving Concrete Barrier Temporary	EACH

Payment is full compensation for providing prompt response to an emergency repair request for damage and/or dislodged temporary concrete barrier located within the project limits.

The cost of providing the appropriate level of on-call staff for 24/7 incident response shall be included in the Mobilization bid item for this project.

The department will pay for any additional traffic control measures, if required, under the respective traffic control bid items in the contract.

128. Emergency Response to Traffic Involving Crash Cushion, Item SPV.0060.0020.

A Description

This special provision describes providing prompt response to an emergency repair request involving a damaged crash cushion installed under this project that is damaged or displaced due to a vehicular collision during the time this contract is in effect.

B (Vacant)

C Construction

The contractor shall provide staff, equipment, and material to the incident site within one hour of receiving a repair request from the responding agency. The contractor shall consult with the department's representative on potential repair or replacement options to restore the temporary concrete barrier to proper working condition. Staff and equipment deployed shall be capable of completing the needed repairs as quickly as possible once repair work is started. Repair work shall be completed off the traveled way to the maximum extent allowable. The contractor shall provide a time log of when the repair request was received and when staff arrived at the incident site. This information shall be submitted to the engineer, for verification, within 24 hours of the repair completion.

Contact information for the contractor's responsible party (the person or persons in charge of coordinating and completing repair efforts) shall be submitted to the engineer at the pre-construction meeting. This person(s) shall be available 24/7 during the duration of this contract. The contact information for the department's representative will be supplied to the contractor at the pre-construction meeting.

If the contractor fails to be on the site of an incident with appropriate staff and equipment within one hour of receiving a repair request, the department will assess the contractor $500 in liquidated damages for each 15-minute interval that the contractor is not present following the allotted on-hour response time.

Increments of 15 minutes or less will be assess as a 15-minute increment. The engineer, or designated representative, will be the sole authority in determining assessable 15-minute increments. Liquidated damages will be assessed under the administrative item Failing to Open Road to Traffic.

Repair work shall be completed according to standard spec 614, and as directed by the engineer. Once repair work has been started, work shall continue until completion. Repair work shall be completed off the traveled was to the maximum extent allowable.

Additional traffic control measures may be required depending on the severity and duration of the incident. The contractor shall provide any needed traffic control measures as directed by the department's representative.

D Measurement

The department will measure Emergency Response to Traffic Involving Crash Cushion as each individual response, 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.0060.0020	Emergency Response to Traffic Involving Crash Cushion	EACH

Payment is full compensation for providing prompt response to an emergency repair request for damaged crash cushion device located within the project limits.

The cost of providing the appropriate level of on-call staff for 24/7 incident response shall be included in the Mobilization bid item for this project.

The department will pay for any additional traffic control measures, if required, under the respective traffic control bid items in the contract.

129. Poles Wood 60-Foot, Item SPV.0060.1001.

A Description

Furnish and install wood poles and other incidental items as required and as shown on the plans, according to standard spec 651, and as hereinafter provided.

B Materials

Furnish wood poles that are Class 4 or larger with a 60-foot minimum overall length. The poles shall be western red cedar according to ANSI standards 05.1. Shave all poles the entire length.

Pressure treat wood poles used for freeway lighting with a 5 percent pentachlorophenol mixture with a minimum of 8 pounds per cubic foot net retention of the oil-borne preservative.

C Construction

Install the pole according to the pertinent provisions of standard spec 611.3.1.1, and as shown on the plans. As necessary, install #4 AWG grounding wire exothermically bonded to a 5/8-inch by 8-foot copper clad grounding electrode, cable guard, NEMA 3R junction box 3ft above grade level for splice, and incidentals as necessary.

D Measurement

The department will measure Poles Wood 60-Foot as a unit for each pole, installed completely as described above.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1001	Poles Wood 60-Foot	EACH

Payment is full compensation for furnishing and installing a wood pole; all excavation and backfill.

130. Wood Pole Lighting 60-Foot, Item SPV.0060.1002.

A Description

The work under these items include furnishing and installing 60-foot wood pole, arm(s) and floodlight(s), junction box, grounding system, and lightning protection system, as shown on the plans, according to standard spec 651 and 659, and as hereinafter provided.

B Materials

Furnish wood poles, Class 4 or larger with a 60-foot minimum overall length. The poles shall be western red cedar according to ANSI standards 05.1. Pressure treatment shall be 5% pentachlorophenol with a minimum of 8 pounds per cubic foot net retention of the oil-borne preservative. Shave all poles the entire length.

Luminaire arm and luminaire for wood pole lighting units and temporary wood pole lighting units are per standard spec 657.2.4 and 659.2 respectively.

Floodlight mounting bracket arms for wood pole lighting units will be as shown on plan details. The floodlights are provided under separate bid items SPV.0060.1007.

C Construction

Perform work according to the pertinent provisions of standard spec 611.3.1.1 and as shown on the plans. Install #4 AWG equipment grounding wire exothermically bonded to a 5/8 inch by 8 foot copper clad grounding electrode. Install cable guard, NEMA 3R junction box near mounting arm, and NEMA 4X junction box at 3 feet above grade for fuses and splice on wood pole units. Install air terminal with #2 AWG grounding wire exothermically bonded to a 5/8-inch by 8-foot copper clad grounding electrode for lightning protection. Install #2 AWG bare copper exothermically bonding between grounding electrodes. Install conduit and wiring between junction boxes, wire racks, and required hardware as necessary and as shown on lighting plans and detail drawings.

Install luminaire arm for wood pole lighting units as shown on the plans and details and as per applicable portion of standard spec 657.3 and 659.3.

D Measurement

The department will measure Wood Pole Lighting 60-Foot as a unit for each individual item installed completely as described above.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1002	Wood Pole Lighting 60-Foot	EACH

Payment is full compensation for furnishing and installing items as mentioned above; for all excavation and backfill.

131. Luminaires Utility HPS 1000 Watts Floodlight, Item SPV.0060.1003.

A Description

This special provision describes furnishing and installing 1000-watt HPS floodlight luminaires with photoelectric control in both a 240V and 480 Volt configuration as shown on the plans, according to pertinent provisions of standard spec 659, and as hereinafter provided.

B Materials

Appropriate 240V Floodlight Models include or approved equal:

American Electric Lighting, Model 77X1SRNMT266TMLC1023PCSS

Cooper Lighting, Model HPNKS1000LLOA/RA1016

Lithonia, Model TFA1000SRBTBFSC22PERLPI

Appropriate 480V Floodlight Models include or approved equal:

American Electric Lighting, Model 77X1SRN5T466TMLC1023PCSS

Cooper Lighting, Model HP-NKS-1000-480V-LL-OA/RA1027

Lithonia, Model TFA-1000S-RB-480FTS-C22-PE4-LPI

Units shall have a 6X6 or 7X7 light distribution. Units shall have a photoelectric cell for control of the fixture operation.

C Construction

The following lighting control cabinets will supply 120/240V power to flood lights for temporary lighting: HL-40-CC.

The following lighting control cabinets will supply 240/480V power to flood lights for temporary lighting: HL-40-CD.

The contractor shall install the luminaire on the light poles at locations specified in lighting plan and according to standard spec 659.2 and 659.3, wired and fused according to standard spec 659.3.2 and as shown on the plans. Luminaires shall be orientated (0 deg = North) as shown and at an angle of 45-degrees from the vertical

D Measurement

The department will measure Luminaires Floodlight 1000W HPS as each individual luminaire, 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.0060.1003	Luminaires Utility HPS 1000 Watts Floodlight.	EACH

Payment is full compensation for furnishing and installing all material required under this bid item.

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132. Concrete Bases Type B, Item SPV.0060.1004.

A Description

This special provision describes furnishing and installing Concrete Bases Type B as shown on the plans, according to standard spec 654, and as hereinafter provided.

B Materials

Materials shall conform to pertinent requirements of standard spec 654.2.

C Construction

Construction shall conform to pertinent requirements of standard spec 654.3.

D Measurement

The department will measure Concrete Bases Type B as each individual base, 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.0060.1004	Concrete Bases Type B	EACH

Payment shall be made as described in standard spec 654.5(2).

133. Luminaires Arms Single Member 4-Inch Clamp 4-FT, Item SPV.0060.1005.

A Description

These special provisions describe furnishing and installing nonstandard Luminaire Arms Single Member 4-Inch Clamp 4-FT.

B Materials

Furnish material as shown in the plan and according to standard spec 657.2.2.3.

C Construction

Conform to standard spec 657.3.

D Measurement

The department will measure Luminaire Arms Single Member 4-Inch Clamp 4-FT 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.0060.1005	Luminaire Arms Single Member 4-Inch Clamp 4-FT.	EACH

Basis of Payment will be standard spec 657.5(5) and 657.5(7).

134. Maintenance of Lighting Systems (1100-20-70/71), Item SPV.0060.1006.

A Description

This special provision describes maintaining existing and proposed lighting system for the IH 41, Burleigh Street to Capitol Drive (ID 1100-20-70) and Capitol Drive to Silver Spring Drive (ID 1100-20-71) beginning on the date that the contractor's activities, including electrical, begin at the job site. Properly operate and maintain all existing and proposed lighting systems which are part of, or which may be affected by, the work until final acceptance or as otherwise determined by the engineer.

Before performing any excavation, removal, or installation work, including electrical, for the project, initiate a request for maintenance transfer and preconstruction inspection, as specified in this special provision.

Conduct the transfer and inspection in the engineer's presence and a representative of the party or parties responsible for maintenance of any lighting systems which may be affected by the work. Request the maintenance preconstruction inspection at least seven calendar days before the desired inspection date.

Existing lighting systems, when shown on the plans, are intended only to indicate the general equipment installation of the systems involved, possibly not exactly representing the field conditions. A site visit will confirm the exact condition of the electrical equipment and systems to be maintained.

Issues found during contractor assessment can be discussed and addressed by contacting the SE Region Lighting Engineer (Eric Perea) before transferring maintenance responsibility to the contractor.

Maintenance of the lighting system includes lighting control cabinet(s):

- ID 1100-20-70: HL-40-BS, HL-40-CC, HL-40-CD
- ID 1100-20-71: HL-40-HM, HL-40-SL, HL-40-CM

The following lighting control cabinet(s) will be used long enough to allow the installation of temporary lighting:

- ID 1100-20-70: HL-40-BS, HL-40-CC, HL-40-CD
- ID 1100-20-71: HL-40-HM, HL-40-SL, HL-40-CM

B (Vacant)

C Construction

C.1 Existing Lighting Systems

Existing lighting systems are defined as any lighting system or part of a lighting system in service before this contract. The contract drawings indicate the general extent of any existing lighting. Understand the effort required for compliance with these specifications; Clear and replace any knockdowns or damage caused to the existing lighting system, regardless of who causes the damage. Maintain existing lighting system as follows:

Partial Maintenance: Only maintain the affected circuits if the number of circuits affected by the contract is equal to or less than 40% of the total number of circuits in a given controller and the controller is not part of the contract work unless otherwise indicated. Obtain engineer approval to isolate the affected circuits by in-line waterproof fuse holders as specified elsewhere

Full Maintenance: Maintain the entire controller and all associated circuits if the number of circuits affected by the contract is greater than 40% of the total number of circuits in a given controller, or if the controller is modified in any way under the contract work.

C.2 Proposed Lighting Systems

Proposed lighting systems are any temporary or final lighting systems or part of a lighting system to be constructed under this contract.

Maintain all items installed under this contract, including all equipment failures or malfunctions as well as equipment damage by the motoring public, contractor operations, or other sources.

C.3 Maintenance Operations

Maintain lighting units (including sign lighting), cable runs, and lighting controls. If a pole is knocked down or sign light damage is caused by normal vehicular traffic, promptly clear the lighting unit and circuit discontinuity, and restore the system to service. Reinstall the lighting unit (if salvageable) or install a new one.

Provide weekly night-time patrol of the lighting system, with patrol reports filed on standard forms as designated by the engineer. Send a copy to the region lighting coordinator.

Correct the deficiencies within a time frame acceptable to the engineer. Remaining deficiencies may require corrective action on specific lighting system equipment as described in the chart or based on material availability.

Incident or Problem	Service Response Time	Service Restoration Time	Permanent Repair Time
Control cabinet out	12 hours	24 hours	7 Calendar days
Hanging mast arm	**Emergency** - As Soon As Possible	na	7 Calendar days
Motorist caused damage or leaning light pole 10 degrees or more	**Emergency** - As Soon As Possible	7 Calendar days	14 Calendar days
Circuit out – Needs to reset breaker	12 hours	12 hours	na
Circuit out – Cable trouble	12 hours	7 Calendar days	21 Calendar days
Outage of 3 or more successive lights	12 hours	7 Calendar days	na
Outage of 75% of lights on one tower	12 hours	7 Calendar days	na
Outage of light nearest RR crossing approach, Islands and gores	12 hours	7 Calendar days	na
Outage (single or multiple non successive lights) found on night outage survey	na	na	7 Calendar days

C.4 Lighting

1. **Serve Response Time:** The amount of time from the initial contractor notification to the patrolman physically arriving.
2. **Service Restoration Time**: The amount of time from the initial contractor notification to a fully operational system again. (In cases of motorist-caused damage, the undamaged portions of the system are operational.)
3. **Permanent Repair Time**: The amount of time from initial contractor notification until permanent repairs are made unless the contractor was required to make temporary repairs to meet the service restoration requirement. Temporary repairs that do not meet the service restoration requirements require engineer's approval.

C.5 Operation of Lighting

Maintain operational lighting every night, from dusk until dawn. Do not operate duplicate lighting systems (such as temporary lighting and proposed new lighting) simultaneously. Do not keep lighting systems in operation during long daytime periods. Ensure that the lighting system is fully operational and approved by the engineer before submitting a pay request.

D Measurement

The department will measure Maintenance of Lighting Systems 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.0060.1006	Maintenance of Lighting Systems (1100-20-70/71)	EACH

Payment is full compensation for Maintenance of Lighting Systems, both existing and proposed, weekly night-time patrol of the lighting system, mobilization, and filed patrol reports.

The contractor will be reimbursed for replaced equipment, materials only, if the invoice paid for the individual piece of equipment is greater than $500.

Non-compliance with designated response, restoration, and permanent repair times will result in liquidated damages of $500 per day per occurrence. In addition, the department reserves the right to assign any work not completed within this timeframe to the State Electrical Engineering and Electronics Unit. Reimburse all costs associated to repair this uncompleted work within one month after the incident or additional liquidated damages of $500 per month per occurrence will be assessed. Unpaid bills will be deducted from the cost of the contract. Repeated non-response or a negligent maintenance shall result in the State's Electrical Engineering and Electronics Unit being directed to correct all deficiencies and the resulting costs deducted from all monies owed the contractor.

Not understanding the effort required for compliance with these specifications will not be justification for extra payment or reduced responsibilities. No payment will be considered for damage or repairs due to contractor operations.

Not ensuring that the lighting system is fully operational and approved by the engineer before submitting a pay request will be grounds for denying the pay request.

135. Lighting System Integrator, Item SPV.0060.1007.

A Description

This special provision describes coordinating lighting with various parties; record keeping, and documentation for the IH 41, Burleigh Street to Capitol Drive (ID 1100-20-70) and Capitol Drive to Silver Spring Drive (ID 1100-20-71). Where the department is responsible for freeway lighting operation, maintenance, or utility locates on existing systems or systems overlapping project boundaries, the contractor's freeway lighting integrator will serve as the contractor's liaison to the department's electrical operations unit.

B Personnel Qualifications

Assign personnel experienced in underground utility construction and department lighting specifications and practices.

C Construction

At any one time during the project (ID 1100-20-70 and ID 1100-20-71), the contractor shall assign one individual person as the freeway lighting integrator.

The freeway lighting integrator shall:

1. Familiarize himself with the location and nature of existing lighting circuits. This familiarity shall include the extent of any lighting system that overlaps project limits.
2. Maintain a file of applicable permits or licenses issued to the contractor, and convey copies to the engineer.
3. Keep with him at all times a contact list of affected lighting personnel.
4. Maintain a record of tagouts and the clearance of tagouts.
5. Interface with department electrical personnel to determine how contract limits might affect maintenance or operation of existing systems.
6. Maintain ongoing contact with the department's Diggers' Hotline Coordinator to ensure that each of the two persons knows that all requested utility locates are marked in the field by the appropriate party. The intent here is to assure coordination. This special provision does not transfer additional utility locating responsibilities to the contractor, beyond those responsibilities already assigned to him by other provisions of the contract.
7. Inform the department of any lighting outages, including outside the project limits where a lighting system crosses the project boundary.
8. Maintain in any format real-time records of existing, removed and new lighting facilities. Include utility service extensions. Additional required records will include temporary connections and their ultimate removal.

9. Maintain records of tests, including: “meg” tests, amperage draw per circuit leg, voltage reading at the disconnect, and voltage reading at the furthest pole per circuit leg. Convey these records at time of acceptance or partial acceptance.
10. At the time of acceptance or partial acceptance, convey as-built drawings in both the following formats: plan redlines and .dgn electronic. Include utility service extensions.
11. Secure copies of operator’s manuals, tear sheets, etc. as may be provided by manufacturers of some lighting materials, and convey a minimum of three sets to the department.
12. Work with the engineer to notify department electrical personnel of acceptance or partial acceptance.
13. Perform related duties as may be needed to ensure continuity of freeway lighting during construction, and orderly transfer upon completion.

D Measurement

The department will measure Lighting System Integrator as each individual project, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1007	Lighting System Integrator	EACH

Payment will be full compensation for providing specified expertise, assistance and documents, and personnel costs.

136. Lighting System Survey, Item SPV.0060.1008.

A Description

This special provision describes performing a lighting system survey as-built for IH 41, Burleigh Street to Capital Drive (ID 1100-20-70) and Capitol Drive to Silver Spring Drive (ID 1100-20-71), as shown on the plans, and hereinafter provided.

B (Vacant)

C Construction

Locate and survey all the lighting units, pull boxes, and control cabinets to sub-meter accuracy. Maintain neat, orderly, and complete survey notes. The survey shall be performed in NAD 83, Wisconsin County Coordinate System (WCCS), and Racine Coordinates. The data shall be delivered in a comma delimited text file with metadata including datum, county, and date the survey was performed. Data for each point shall have a point number, northing, easting, and point description including pole, pull box, or cabinet number.

D Measurement

The department will measure Lighting System Survey as each individual project, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1008	Lighting System Survey	EACH

Payment will be full compensation for locating and surveying all the lighting units, pull boxes, and control cabinets and for delivery of the comma delimited data file and all survey notes.

137. Removing Overhead Freeway DMS, Item SPV.0060.2000.

A Description

This special provision describes removing an existing full-matrix overhead freeway dynamic message sign, controller, and cables; removing the sign and controller; storing them for removal of desired parts by the department and disposing of remaining undesired parts.

B Materials

Existing sign, controller, control cables, and power wires.

Existing sign assembly consists of dynamic message sign, hardware for mounting sign on sign structure, and sign controller. Cabling for the dynamic message sign and controller is contained in rigid conduit. The above components are mounted to an overhead freeway DMS structure.

Removed dynamic message sign will be a Mark IV Industries LTD. 18-Inch Light Emitting Diode (LED), Full Matrix, Type 1 sign. The nominal dimensions of the sign are 310-Inches long, 106-Inches high, 36-Inches wide at the bottom and 42-Inches wide at the top.

C Construction

Carefully remove the dynamic message sign and controller for storage, parts removal, and later disposal. Prior to removing the sign and controller, the contractor may request that it be inspected to determine condition. Once removal has started, the contractor shall be responsible for any damage to the sign or controller. It will be the choice of the contractor on how best to remove the sign from the overhead structure. Replace or repair any damaged components at no additional expense to the department.

Store the dynamic message sign and controller in a secure and safe location until such time as the department can have a representative remove desired parts from the sign. The department will complete the parts removal process within 10 non-holiday business days of the sign being removed from the overhead structure and access being granted to the department representative. Contact Dean Beekman at (414) 227-2154 for coordination of parts removal by the department 30 days prior to the sign being made available for parts removal. After the department has obtained all desired parts from the sign, the contractor shall properly dispose of all remaining undesired parts off of the project area. Remaining undesired parts will include the DMS enclosure.

D Measurement

The department will measure Removing Overhead Freeway DMS by the 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.0060.2000	Removing Overhead Freeway DMS	EACH

Payment is full compensation for removing the DMS, sign controller and cables, including any necessary wiring disconnections; for storing the sign for spare parts removal; any necessary restoration; and for disposing of the sign enclosure and remaining components after spare parts removal.

138. Removing Controller Cabinet, Item SPV.0060.2001.

A Description

This special provision describes removing an existing controller cabinet.

B (Vacant)

C Construction

Remove controller cabinets at the locations shown on the plans, or as directed by the engineer. Salvage and store the cabinets and all contents for pick up by the department.

Do not remove the existing ITS control cabinets, or any other associated equipment until necessary, or as directed by the engineer. Carefully remove the existing cabinets from the concrete bases, together with all components in such a manner as to safeguard all parts and wiring from damage or loss. Salvage and store the cabinet and contents for pick up by the department.

Prior to removing the existing ITS control cabinets, remove all cables being terminated in the cabinet. Cut existing cables flush with cabinet base and cap existing conduits. Dispose of the cables properly away from the project area.

D Measurement

The department will measure Removing Controller Cabinet by the 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.0060.2001	Removing Controller Cabinet	EACH

Payment is full compensation for removal and storage of the controller cabinet; disconnecting all associated wires and cables; and for capping existing conduits.

139. Removing Controller Cabinet Base, Item SPV.0060.2002.

A Description

This special provision describes removing an existing controller cabinet concrete base.

B Materials

Existing controller cabinet base, including concrete masonry, ground rods, masonry anchors, and restoration materials such as topsoil, seeding, mulch, and fertilizer according to the pertinent provisions of standard spec 201, 625, 627, 629, 630, 636, and 640.

C Construction

Remove and dispose of the concrete foundation and all other pertinent materials, and restore the disturbed area by placing 4-inches of topsoil, and fertilize, seed, and mulch all disturbed areas according to the pertinent requirements of the standard specifications.

D Measurement

The department will measure Removing Controller Cabinet Base by the unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2002	Removing Controller Cabinet Base	EACH

Payment is full compensation for removing and disposing of a concrete controller cabinet base, including masonry anchors, ground rods, and concrete masonry; and for topsoil, fertilizer, seed and mulch.

140. Ground Rod, Item SPV.0060.2003.

A Description

This special provision describes installing a ground rod and ground wire.

B Materials

Ground rod shall be copper clad steel with cladding 13 mils thick. The minimum diameter is 5/8-inch and the minimum length is eight feet. Ground wire shall be AWG # 6 bare, solid copper.

C Construction

Use exothermic welding to connect the ground wire to the rod. Install the rod vertically, or as close to vertical as conditions permit. Select locations with moist soil, if available. Place the rod at least six feet from all other ground rods.

D Measurement

The department will measure Ground Rod by the unit, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2003	Ground Rod	EACH

Payment is full compensation for installation of the ground rod and ground wire; welding and connections at both ends of the ground wire.

141. Removing Microwave Detector, Item SPV.0060.2004.

A Description

This special provision describes removing an existing side-fire microwave vehicle detector from a pole or sign bridge.

B Materials

Existing side-fire microwave detector and cabling pig-tail.

C Construction

Coordinate removal of microwave detectors with the department's Traffic Management Center (TMC) by proposing the removal schedule a minimum of 2-weeks prior to the scheduled removal. Call the TMC at (414)-227-2166 to schedule the removal.

Disconnect all cables and wiring that are mounted on or in the structure, and carefully remove the microwave detector. Salvage and store the microwave detector and pig-tail for pick up by the department.

D Measurement

The department will measure Removing Microwave Detector as a unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2004	Removing Microwave Detector	EACH

Payment is full compensation for disconnecting any necessary wiring; removing the side-fire microwave vehicle detector, and for salvaging and storing the detector and pig-tail for pick up by the department.

142. Removing Pole, Item SPV.0060.2005.

A Description

This special provision describes removing an existing Type 2, 3, 4, 5, 6, or 7 pole.

B Materials

Existing poles, including antennae, conduit and cabling, and any other equipment mounted to the poles.

C Construction

Disconnect all cables and wiring that are mounted on or in the poles, and carefully remove the pole from the concrete footing. Salvage and store all hardware for pick up by the department. Dispose of the pole and any conduit and cabling appropriately away from the project area.

D Measurement

The department will measure Removing Pole as a unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2005	Removing Pole	EACH

Payment is full compensation for disconnecting any necessary wiring; removing the poles and equipment mounted on the poles; for storing or disposing of the poles and transformer bases; and for storing any equipment attached to them for pick up by the department.

143. Install Salvaged Pole, Item SPV.0060.2006.

A Description

This special provision describes installing a previously removed and salvaged pole and transformer base on a new concrete base, paid for separately.

B Materials

Materials include salvaged pole and transformer base, and new hardware (nuts and washers) required to mount the pole and transformer base to a new concrete base.

C Construction

Perform work conforming to Sections 657of the Standard Specifications and the WSEC, and as the plans show.

D Measurement

The department will measure Install Salvaged Pole as each individual assembly, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2006	Install Salvaged Pole	EACH

Payment is full compensation for installing a salvaged pole and transformer base on a new concrete base, and for providing new mounting hardware.

144. Install Poles Install Poles Type 9, Item SPV.0060.3000; Install Poles Type 9 Special, Item SPV.0060.3001; Install Monotube Arms 30-FT, Item SPV.0060.3002; Install Monotube Arms 45-FT Type 9/10 Spec Pole, Item SPV.0060.3003.

A Description

This special provision describes installing state furnished materials conforming to standard spec 657, details shown in the plans, and as modified in this special provision.

B Materials

The department will furnish the monotube poles, monotube arms and luminaire arms. Provide any other necessary material required to complete the installation as the plans show.

C Construction

Install equipment according to standard spec 657.3.

D Measurement

The department will measure Install [Equipment] at the contract unit price, 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.0060.3000	Install Poles Type 9	EACH
SPV.0060.3001	Install Poles Type 9 Special	EACH
SPV.0060.3002	Install Monotube Arms 30-FT	EACH
SPV.0060.3003	Install Monotube Arms 45-FT Type 9/10 Spec Pole	EACH

Payment for the Install Poles bid items is full compensation for installing department furnished poles and for providing grounding lugs, fittings, shims, hardware, and other required components the department does not furnish.

Payment for the Install Monotube Arms and Install Luminaire Arms bid items is full compensation for installing department furnished arms; for providing high-strength bolt/nut/washer assemblies and DTIs including those required for testing; and for providing related mounting hardware, leveling shims, and other required components the department does not furnish.

145. Transport and Install State Furnished Traffic Signal Cabinet IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item SPV.0060.3004.

A Description

This special provision describes the transporting and installing of department furnished materials for traffic signals.

B Materials

Use materials furnished by the department including: the traffic signal controller and the traffic signal cabinet.

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials five working days prior to picking the materials up.

Provide all other needed materials in conformance with standard spec 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

Request a signal inspection of the completed signal installation to the engineer at least five (5) working days prior to the time of the requested inspection. The departments' Region Electrical personnel will perform the inspection.

D Measurement

The department will measure Transport and Install Traffic Signal Cabinet [Location] as a single unit of work, in place 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.0060.3004	Transporting and Installing State Furnished Traffic Signal Cabinet IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for transporting and installing the traffic signal controller and the traffic signal cabinet; for furnishing and installing all other items necessary (such as, wire nuts, splice kits and/or connectors, tape, insulating varnish, ground lug fasteners, etc.) to make the proposed system complete from the source of supply to the most remote unit and for clean-up and waste disposal.

146. Temporary Non-Intrusive Vehicle Detection System for Intersections, IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item SPV.0060.3005.

A Description

This work shall consist of furnishing, installing, maintaining and placing into operation a temporary non-intrusive vehicle detection system (NIVDS) as shown on the plans, and as directed by the engineer in the field.

B Materials

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway and provides detection outputs to a traffic signal controller. The materials shall also include all brackets, mounting hardware, cable, terminations, interface panels, and all other incidentals for the installation of the non-intrusive vehicle detection equipment. This equipment shall meet the NEMA environmental, power and surge ratings as set forth in NEMA TS2 specifications.

All detection equipment, components, and terminations supplied under this item shall be fully compatible with the temporary traffic signal controller supplied for the project. The system architecture shall fully support Ethernet networking of system components. All required interface equipment needed for transmitting and receiving data shall be provided with the NIVDS.

The NIVDS shall provide flexible detection zone placement anywhere and at any orientation. Preferred detector configurations shall be detection zones placed across lanes of traffic for optimal count accuracy, detection zones placed parallel to lanes of traffic for optimal presence detection accuracy of moving or stopped vehicles. Detection zones shall be able to be overlapped for optimal road coverage.

C Construction

The temporary NIVDS shall be installed by supplier factory-certified installers and as recommended by the supplier and documented in installation materials provided by the supplier.

In the event, at installation or turn on date, a noticeable obstruction is present in line with the detection zone(s), the contractor shall be obligated to advise the engineer before setting the zone.

The non-intrusive vehicle detection system, as shown in the traffic signal construction plans, shall be complete, in place, tested, and in full operation during each stage of construction.

Maintain all temporary vehicle detection zones as the plans show or as the engineer directs. The temporary vehicle detection zones shall be set near the vicinity and with approximate distance from the stop bar as shown on the plans. Check temporary vehicle detection zones every other week and at the opening of each stage of temporary traffic signal operation to ensure that they are working properly and aimed properly. Periodic adjustment of the detection zones and/or moving of the temporary vehicle detection sensors may be required due to changes in traffic control, staging, or other construction operations.

Ensure the non-intrusive vehicle detection system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

D Measurement

The department will measure Temporary Vehicular Video Detection System for Intersections (Location) as a single unit of work, 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.0060.3005	Temporary Non-Intrusive Vehicle Detection System for Intersections, IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for furnishing and installing the temporary non-intrusive vehicle detection system, including cabling, mounting brackets, mounting hardware, terminations, interface panels, testing and set up; for periodic checking and resetting of detection zones; for periodic cleaning for dirt and dust build-up; and for removing all equipment at the completion of the project.

147. Transport and Install State Furnished Radar Detection System, IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item SPV.0060.3006

A Description

This special provision describes the transporting and installing of department furnished Radar Detection System on monotube poles or arms.

B Materials

Pick up the department furnished Radar System at the department's electrical shop located at 935 South 60th Street, West Allis. Notify the department's electrical field unit (EFU) at (414) 266-1170 to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Install the department furnished pole/arm mounting brackets, extension arms (if required), and radar units per manufacturer recommendations in the locations determined by the department.

Install the power and communication cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an additional 16-feet in each pull box and an extra 10-feet in the pole handhole. Install the detector unit cable whip from the detector unit to the pole handhole. Splice the detector unit cable whip to the power and communication cable in the pole handhole using the provided junction box.

Mark each end of the lead in the traffic signal cabinet and each cable in the pole handhole to indicate the equipment label (i.e., RA1, RA2, etc.) on the plans. For a cabinet that is not operating the signal, the contractor will terminate the ends. If the cabinet is operating the signal, the cabinet wiring will be done by the department.

Notify department's Electrical Shop at (414) 266-1170 upon completion of the installation and aiming of the radar units.

The department will provide the vendor's contact information. Coordinate directly with the department's radar detection system vendor to arrange for the vendor to program the radar detection system on site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with fine adjusting of the radar units during the radar system programming, if necessary.

D Measurement

The department will measure Transporting and Installing State Furnished Radar Detection System as a single unit of work for each intersection, 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.0060.3006	Transport and Install State Furnished Radar Detection System IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for transporting and installing the radar detection system, cable, mounting hardware, and radar units; for assisting the department and vendor during the radar system programming.

148. Transporting Traffic Signal and Intersection Lighting Materials IH 41 NB Ramps & CTH EE (W. Hampton Ave), Item SPV.0060.3007.

A Description

This special provision describes the transporting of department furnished materials for traffic signals and intersection lighting.

B Materials

Transport materials furnished by the department including: Monotube arms/poles and luminaire arms (to be installed on monotube assemblies).

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials 5 working days prior to picking the materials up.

Provide all other needed materials in conformance with standard spec 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

D Measurement

The department will measure Transporting Traffic Signal and Intersection Lighting Materials [Location] as a single unit of work in place 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.0060.3007	Transporting Traffic Signal and Intersection Lighting Materials IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for transporting the monotube poles/arms and luminaire arms (to be installed on monotubes). Installation of these materials is included under a separate pay item.

149. Install Fiber Optic Communications in Cabinet IH 41 NB Ramps and CTH EE (W. Hampton Ave), Item SPV.0060.3008.

A Description

This special provision describes the installation of fiber optic communications equipment in the traffic signal cabinet.

B Materials

The department will furnish pre-terminated fiber optic patch panels or fiber termination panels. The materials will be provided with the traffic signal cabinet. The patch panels will have pre-terminated fiber optic cable pigtails. Provide two each 1-meter lengths of ST-ST single mode fiber jumper (2 fibers per jumper) from the patch panel to the Ethernet switch. Provide all patch panel or termination panel attachment hardware.

Provide a 14 AWG XLP insulated, stranded, copper, 600 volt AC locate wire through the conduit run from the communication vault to the traffic signal cabinet. Connect the locate wire by using a silicone filled wire nut at each pull box, vault or other access point. Alternatively, use a single wire through the access points, leaving a 6 foot coil in each pull box, vault or other access point for splicing. All material under this item shall meet the requirements of standard spec 655.

C Construction

Install the patch panel or termination panel on the side of the traffic signal cabinet opposite the electrical service at a location as approved by the engineer. Install the pre-terminated fiber optic cable in conduit from the patch panel to the communication vault as specified in standard spec 678.3.1. Fiber optic cable ends shall be covered securely to protect open ends during installation in raceways. Leave the remainder of the fiber optic cable coiled in the communication vault.

Install the fiber jumpers and provide a communications link from the FTMS cabinet to the controller. Connect the locate wire by using a wire nut at each access point. Alternatively, use a single wire through the access points.

D Measurement

The department will measure Install Fiber Optic Communications in Cabinet IH 41 NB Ramps & CTH EE (W. Hampton Ave) as each 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.0060.3008	Install Fiber Optic Communications in Cabinet IH 41 NB Ramps & CTH EE (W. Hampton Ave)	EACH

Payment is full compensation for installing pre-terminated patch panels or termination panels and fiber optic cable in conduit; furnishing and installing attachment hardware, fiber jumpers, and locate wire.

150. Embedded Galvanic Anodes, Item SPV.0060.4000.

A Description

This special provision describes furnishing and installing embedded galvanic anodes in concrete.

B Materials

Furnish pre-manufactured galvanic anodes designed for cathodic protection when embedded in concrete and tied to steel reinforcing. The core of the anode shall consist of a minimum of 1.3 ounces of electrolytic zinc in compliance with ASTM B418 Type II, cast around a pair of steel tie wires and encased in a cementitious shell with a minimum pH of 14. The anodes shall have one side that is less than 1-1/2 inches in height.

Submit the product information to the engineer for approval. Supply a certification of compliance to the engineer a minimum of two weeks before starting work. Deliver, store, and handle all materials according to the manufacturer's instructions.

C Construction

C.1 Concrete Repair

Repair the concrete and prepare the exposed reinforcing steel conforming to standard spec 509.

C.2 Galvanic Anode Installation

C.2.1 Install embedded galvanic anodes conforming to the manufacturer's recommendations.

C.2.2 Attach galvanic anodes to existing reinforcement along the perimeter of the repair at spacing as specified on the plans. Space anodes no further than 24 inches apart.

C.2.3 Provide 3/4-inch clearance between anodes and substrate.

C.2.4 Secure the galvanic anodes as close as possible to the patch edge using the anode tie wires. Tighten the tie wires to allow no free movement.

If the anode is to be tied onto a single bar, or if less than 1-1/2 inch of concrete cover is expected, place anode beneath the uncoated bar and secure to reinforcing steel.

If 1-1/2 inch concrete cover will exist over the anode, the anode may be placed at the intersection between two bars and secured to each bar.

C.3 Electrical Continuity

Confirm electrical connection between anode tie wire and uncoated reinforcing steel with a multi-meter. The maximum DC resistance shall be 1 Ohm. Confirm electrical continuity of the exposed uncoated reinforcing steel within the repair area. Steel reinforcement shall be considered continuous when the DC resistance is 1 Ohm or less. If necessary, establish the electrical continuity with uncoated steel tie wire.

C.4 Inspection

Obtain engineer's verification of proper installation of the galvanic anodes prior to placement of the concrete.

D Measurement

The department will measure Embedded Galvanic Anodes as each individual anode acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.4000	Embedded Galvanic Anodes	EACH

Payment is full compensation for furnishing and for properly installing anodes.

The department will pay separately for concrete repair work, and concrete for that work.

151. Micropile Verification Load Test, SPV.0060.4010; Micropile Proof Load Test, Item SPV.0060.4011.

A Description

Work under this item consists of testing micropiles installed for this project. Perform work according to pertinent parts of the standard specifications, the plans, and these special provisions.

A.1 Definitions

Alignment Load: A minimum initial load (no greater than 5 percent of the Factored Design Load) applied to micropile during testing to keep the testing equipment correctly positioned.

Compression Load Test: Verification or Proof Load Test to verify the factored design load downward on the pile.

Factored Design Load: The maximum test load that verification and proof load test micropiles must safely carry. The factored design load is equal to the factored axial load using LRFD methodology.

Factored Resistance: The ultimate resistance composed of the lower of the geotechnical resistance and structural resistance, multiplied by resistance factors applied as is shown on the plans. The factored resistance is greater than or equal to the factored design load.

Maximum Test Load: The maximum load to which the micropile is subjected during testing. For this project the maximum test load will be the factored design load.

Micropile: A small-diameter, bored, cast-in-place composite pile, in which the applied load is resisted by steel reinforcement, cement grout and frictional grout/ground bond.

Production Pile: A pile used for supporting a structure. Production piles shall be installed using the same equipment, methods, and materials as accepted test piles.

Proof Load Test: Incremental loading of a production micropile, recording the total movement at each increment.

Reaction Pile: Optional pile installed to assist in testing a test pile or a production pile. Reaction pile may be abandoned in place or removed and salvaged at the contractor's option.

Required Ultimate Resistance: The limiting resistance of the geotechnical resistance or structural resistance.

Tension Load Test: Verification or Proof Load Test to verify the factored design load for uplift on the pile. Tension Load Tests may also be used to verify the factored design load downward on the pile, if permitted on the plans.

Test Piles: Sacrificial test piles that are not incorporated into the substructure, and which are abandoned after completion of testing. Non-production test piles shall be installed using the same equipment, methods, materials, and under the same headroom as production piles.

Verification Load Test: Pile load test performed to verify the design of the pile system and the construction methods proposed. At the contractor's option and assumption of risk, this pile load test may be performed on a first production pile prior to installation of any other production piles. Alternately, perform the pile load test on a sacrificial test pile prior to the installation of production piles.

A.2 Contractor Qualifications

A.2.1 Verification and Proof Load Test Contractor

The proof load test contractor shall be the same contractor or subcontractor installing the micropiles, with the experience required of the micropile contractor outlined elsewhere in these special provisions.

A.2.5 Documentation

Fulfill the same documentation requirements as required for the micropile contractor, as outlined elsewhere in these special provisions.

B (Vacant)

C Construction

C.1 General

Perform verification and proof testing of piles at the locations specified on the plans. Perform compression load testing according to ASTM D1143 and tension load testing according to ASTM D3689, except as modified herein. Tension load testing may be permitted to evaluate the factored resistance downward on the micropile, if permitted on the plans. Perform proof load test(s) on the first set of production piles installed at each designated substructure unit prior to the installation of the remaining production piles in that unit. The initial proof test piles shall be installed at the locations shown on the plans. Reaction piles may be installed to assist in proof testing at no cost to the department. Production piles next to proof test piles may be installed at the same time as proof test piles to serve as reaction pile(s) for the proof test(s). For a pile to operate as a reaction pile, it must be a minimum of 7’ away from the test pile. Upon completion of each test, the contractor shall submit a report stamped by a qualified professional engineer licensed in the State of Wisconsin of the test results for review and acceptance by the engineer.

Perform verification micropile load test(s) to verify the design of the pile system and the construction methods proposed prior to installing any production piles, except that the first production pile may be a verification test pile at the contractor’s option and assumption of risk. If a verification-tested first production micropile fails to meet the acceptance criteria, the contractor shall apply remedies for production micropiles listed in subsection C.2.2.1 of this special provision and immediately install another non-production micropile for verification testing before proceeding with installing other production micropiles – all at no cost to the department. Verification test pile(s) shall be constructed in conformance with the approved shop drawings. Verification test pile(s) shall be installed at the location(s) shown on the plans or at a location(s) approved by the engineer. Reaction piles may be installed to assist in testing verification test pile(s) at no cost to the department. Remove verification test piles that conflict with the installation of production piles.

Verification load test(s) shall be performed to verify that the contractor-installed micropiles will meet the compression and/or tensile load capacities and load test acceptance criteria and to verify that the length of the micropile load transfer bond zone is adequate. The micropile verification load test results must verify the contractor’s design and installation methods.

The drilling method, grouting method, casing length, micropile diameter (cased and uncased), reinforcing bar length and length of embedment for the verification test pile shall be identical to those specified for the production piles at the given locations. The verification test micropile structural steel sections shall be sized to safely resist the maximum test load.

The maximum verification and proof test loads applied to the micropile shall not exceed 80 percent of the structural capacity of the micropile structural elements; include steel yield in tension, steel yield or buckling in compression, or grout crushing in compression. Any required increase in strength of the verification and proof test pile elements above the strength required for the production piles shall be provided for at no cost to the department.

Testing equipment shall include dial gauges, dial gauge independent reference frame, jack and pressure gauge, electronic load cell (with readout device), and a reaction frame. The contractor shall provide a description of test setup and jack, pressure gauge and load cell calibration curves according to the Submittals Section.

Design the testing reaction frame to be sufficiently rigid and of adequate dimensions such that excessive deformation of the testing equipment does not occur. Align the jack, bearing plates, and stressing anchorage such that unloading and repositioning of the equipment will not be required during the test.

C.2 Testing Procedure

Apply and measure the test load with a hydraulic jack and pressure gauge. The pressure gauge shall be graduated in 100 psi increments or less. The jack and pressure gauge shall have a pressure range not exceeding twice the anticipated maximum test pressure. Jack ram travel shall be sufficient to allow the test to be done without resetting the equipment.

Measure the micropile top movement with a dial gauge capable of measuring to 0.001 inches. The dial gauge shall have a travel sufficient to allow the test to be done without having to reset the gauge. Visually align the gauge to be parallel with the axis of the micropile and support the gauge independently from the jack, pile or reaction frame. Use a minimum of two dial gauges when the test setup requires reaction against the ground or single reaction piles on each side of the test pile.

C.2.1 Verification Load Testing Procedure

Test verification piles to the “Factored Design Load” shown on the plans. The verification pile load tests shall be made by incrementally loading the micropile according to the following cyclic load schedule for both compression and tension loading (test the compression prior to tension):

Verification Test Loading Schedule		
AL = Alignment Load FDL = Factored Design Load		
	LOAD	HOLD TIME
1	AL (.05 FDL)	1 minute
2	0.25 FDL	1 minute
3	0.50 FDL	1 minute
4	AL	1 minute
5	0.25 FDL	1 minute
6	0.50 FDL	1 minute
7	0.75 FDL	1 minute
8	AL	1 minute
9	0.25 FDL	1 minute
10	0.45 FDL	1 minute
11	0.60 FDL	1 minute
12	0.75 FDL	1 minute
13	AL	1 minute
14	0.25 FDL	1 minute
15	0.40 FDL	1 minute
16	0.55 FDL	1 minute
17	0.65 FDL	1 minute
18	0.75 FDL	60 minutes
19	0.90 FDL	1 minute
20	1.00 FDL (Maximum Test Load)	10 minutes
21	AL	1 minute

The test load shall be applied in increments of the FDL load given in the table above. Each load increment shall be held for a minimum of 1 minute. Micropile top movement shall be measured at each load increment. The load-hold period shall start as soon as each test load increment is applied. The alignment load shall not exceed 5 percent of the FDL load. Dial gauges shall be reset to zero after the initial AL is applied.

C.2.1.1 Verification Load Testing Acceptance Criteria

The acceptance criteria for micropile verification load tests are:

The micropile shall sustain the compression or tension 1.0 FDL test load with no more than ½” total vertical movement at the top of the pile, relative to the position of the top of the pile prior to testing.

Upon completion of the test, the contractor shall submit a report stamped by a qualified professional engineer licensed in the State of Wisconsin of the test results for review and acceptance by the engineer prior to beginning installation of other production micropiles. This report shall include written confirmation of the verification micropile’s capacity.

If a verification tested micropile fails to meet the acceptance criteria, the contractor shall modify the design, the construction procedure, or both. These modifications may include modifying the installation methods, increasing the bond length, or changing the micropile type. Any modification that necessitates changes to the structure shall be submitted as a revision to the working drawings and require the engineer’s review and acceptance. Any modifications of design or construction procedures or cost of additional verification test piles and load testing shall be at no cost to the department. At the completion of

verification testing, non-production test piles shall be removed down to the elevation specified by the engineer.

C.2.2 Proof Load Testing Procedure

Perform proof load tests at all locations indicated on plans. Upon completion of each test, the contractor shall submit a report stamped by a qualified professional engineer licensed in the State of Wisconsin of the test results for review and acceptance by the engineer.

Proof test piles to a maximum test load of 1.00 times the micropile Factored Design Load shown on the plans or shop drawings. Proof tests shall be made by incrementally loading the micropile according to the following schedule, to be used for both compression and tension loading:

Proof Test Loading Schedule		
AL = Alignment Load FDL = Factored Design Load		
	LOAD	HOLD TIME
1	AL	1 minute
2	0.25 FDL	1 minute
3	0.45 FDL	1 minute
4	0.55 FDL	1 minute
5	0.65 FDL	1 minute
6	0.75 FDL	10 minutes
7	1.00 FDL (Maximum Test Load)	1 minute
8	AL	1 minute

Depending. The alignment load shall not exceed 5 percent of FDL. Dial gauges shall be reset to zero after the initial AL is applied.

C.2.2.1 Proof Load Testing Acceptance Criteria

The acceptance criteria for micropile proof load tests are:

The micropile shall sustain the compression or tension 1.0 FDL test load with no more than ½” total vertical movement at the top of the pile, relative to the position of the top of the pile prior to testing.

If a proof-tested micropile fails to meet the acceptance criteria, the contractor shall immediately proof test another micropile within that footing. For failed micropiles and further construction of other piles, the contractor shall modify the design, the construction procedure, or both. These modifications may include installing replacement micropiles, incorporating additional micropiles to carry not more than 50% of the maximum test load attained on the failed micropile, post-grouting the tested pile and re-proof testing the pile, modifying installation methods, increasing the bond length, or changing the micropile type. Any modification that necessitates changes to the structure design shall require the engineer’s prior review and acceptance. Any modifications of design or construction procedures, or cost of additional verification test piles and verification and/or proof load testing, or replacement production micropiles, shall be at no cost to the department.

D Measurement

The department will measure the Micropile Verification and Proof Load Test bid items 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.0060.4010	Micropile Verification Load Test	EACH
SPV.0060.4011	Micropile Proof Load Test	EACH

Payment will be full compensation for testing micropiles and removing any deficient micropiles, if required; and for providing all design, materials, labor, equipment, tests, and incidentals to complete the contract work. All non-production verification test piles are designated as sacrificial and are included in the cost of Micropile Verification Load Test. There will be no extra payment for grout overruns.

152. Vegetation Removal B-40-358, Item SPV.0060.4030; Vegetation Removal B-40-359, Item SPV.0060.4031.

A Description

This special provision describes providing removing and disposing of vegetation within slope paving limits and along ditch lines adjacent to bridge piers.

B (Vacant)

C Construction

C.1 Vegetation Removal

Remove all vegetation within existing slope paving limits. Remove vegetation alongside existing bridge piers and restore any ditch lines to grade to ensure proper drainage. Additional removal of vegetation interfering with the structure to be as directed by the engineer.

Perform vegetation removal work per standard spec 201.3, except as modified herein.

D Measurement

The department will measure Vegetation Removal (structure) as a complete unit for each structure, 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.0060.4030	Vegetation Removal B-40-358	EACH
SPV.0060.4031	Vegetation Removal B-40-359	EACH

Payment is full compensation for all vegetation removal required under this section and performed within the removal limits defined under this section and identified on the plans; handling, hauling, piling, burning, burying, trimming, chipping, wound treatment, re-handling, and disposing of waste and debris.

153. Strapping C-40-47, Item SPV.0060.4040.

A Description

This special provision describes securing a wing wall to a culvert or abutment body with a structural channel.

B Materials

Use galvanized structural channel conforming to the size and material shown on the plans, and conforming to standard spec 506.

C Construction

Attach the structural channel with the number, size and spacing of anchors shown on the plans.

D Measurement

The department will measure Strapping C-40-47, as each wing for the repair 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.0060.4040	Strapping C-40-47	EACH

Payment is full compensation for furnishing and installing the channel.

154. Cleaning and Painting Bearings, Item SPV.0060.4060.

A Description

This special provision describes cleaning and painting the existing steel bearings on structures conforming to standard spec 517 and as directed by the engineer.

B Materials

Furnish a complete coating system from the department's Painting Epoxy System Structure approved product list. Use the same coating system for all repairs due to handling, shipping, and erecting; and for all other uncoated areas.

The color of epoxy shall be gray and the urethane coating material shall match the color number shown on the plans conforming to AMS Standard 595A.

Supply the engineer with the product data sheets before any coating is applied. The product data sheets shall indicate the mixing and thinning directions, the minimum drying time for shop or field applied coats, and the recommended procedures for coating galvanized bolts, nuts, and washers.

C Construction

C.1 Surface Preparation

Clean areas of loose paint and rust by wire brushing, grinding, or other mechanical means. Sound paint does not need to be removed. After clean up and storage of waste material, blast cleaning is allowed for only those areas where paint has been removed. Shield adjacent painted areas during blast cleaning operations. The blasting sand does not have to be collected.

Furnish containment methods as required to contain and collect waste material resulting from the preparation of painted steel surfaces for painting. All clean up activities should minimize dust. Store waste materials in hazardous waste containers provided by the department. The department is responsible for the transport and disposal of the contained materials by the statewide hazardous waste contractor.

C.2 Coating Application

Apply paint in a neat, workmanlike manner, and conforming to the manufacturer's instructions and recommendations. Paint application shall be brushed on.

D Measurement

The department will measure Cleaning and Painting Bearings as each individual bearing 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.0060.4060	Cleaning and Painting Bearings	EACH

Payment is full compensation for preparing and cleaning the designated bearings; furnishing and applying the paint; cleaning up; and containing and collecting all waste materials.

155. Pier Widening Access, Item SPV.0060.4070.

A Description

This special provision describes requirements for contractor access under Bridges B-40-358 and B-40-359 to construct the foundations for the bridge widenings and other proposed work performed underneath the bridges.

B (Vacant)

C Construction

Prior to starting work, submit an access plan to the engineer and the UPRR engineer for review. Plan shall indicate methods, materials, locations and areas of access paths, and durations. Incorporate any modifications that either the engineer or the UPRR engineer directs. Do not start work under the bridge until both the engineer and the UPRR engineer approve the access plan.

Contractor shall obtain all necessary permits and private access agreements for accessing the work areas to perform the micropile installation and pier construction. Do not start work under the bridge until permits and agreements have been obtained.

Contractor is responsible to ensure that any contractor proposed temporary grading or shoring that may be required to access the site does not impact utilities or the UPRR, or if so, to coordinate with any utilities or UPRR that may be affected.

Remove any material placed to facilitate temporary access and restore the grade to approximately the same grade and condition prior to construction and as shown in the plans or directed by the engineer.

D Measurement

The department will measure Pier Widening Access as a complete unit for each location acceptably completed. This bid item covers pier access under both Bridges B-40-358 and B-40-359 as one location.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.4070	Pier Widening Access	EACH

Payment is full compensation for all items required to access under Bridges B-40-358 and B-40-359 to accommodate the equipment and materials required to install the micropile foundations and pier constructions for all six pier widening locations. Payment is full compensation for preparing an access plan and for obtaining necessary approvals from the department and UPRR; for permitting and private access agreements; for any temporary grading and temporary shoring for access; for clearing and grubbing; for furnishing, installing, maintaining, and removing the access system(s) and components; and for restoring disturbed areas.

156. Resetting Bearings B-40-358, Item SPV.0060.4080.

A Description

This special provision describes raising the bridge, supporting it while the bearings are reset, resetting the bearings, and lowering the bridge back on the bearings at the locations shown on the plans.

B (Vacant)

C Construction

Support jacks on or adjacent to existing substructure unit. Localized bridge jacking for resetting of individual bearing permitted. After jacking, allow elastomeric bearing to release to undeformed state. If necessary, apply force to return the elastomeric bearing to near vertical condition in the side profile as viewed perpendicular to the girder centerline. Take care not to damage the elastomeric bearings while resetting. With approval of engineer, lower the bridge back on the bearing.

Perform work when traffic is restricted to two or fewer lanes on the opposite edge of the bridge deck from the bearing being worked on.

Perform work when the ambient temperature is between 45° F and 85° F. The expected deformation from vertical towards the abutment backwall is as follows:

45° F……0”
55° F……3/16”
65° F……5/16”
75° F……1/2””
85° F……5/8”

Submit to the engineer for approval plans showing the method of raising the bridge. Show type of jacks, size of jacks, shoring or falsework, and sequence of work in the plans.

D Measurement

The department will measure Resetting Bearings B-40-358 as each individual bearing, 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.0060.4080	Resetting Bearings B-40-358	EACH

Payment is full compensation for furnishing all equipment and shoring; preparation and submittal of jacking plans; raising the bridge; resetting the bearing; and lowering the bridge onto the bearing.

157. Tension Anchor Rod, Item SPV.0060.4500

A Description

This special provision describes re-tensioning loose anchor rod nuts as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to the pertinent provisions of standard spec 531 and 532 and as shown in the plans.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 531 and 532 and as shown in the plans. This work will consist of re-tensioning all loose anchor rod nuts as specified in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. The contractor shall verify the grade of the anchor rod. If an anchor rod grade cannot be verified, the department shall be contacted for direction. Note that A36 rods have different tensioning requirements.
2. The contractor shall field verify the size and number of nuts required to be replaced. Note that if one or more are found to be loose at a foundation, all are required to be re-tensioned.
3. Remove all jam nuts[1].
4. The contractor shall furnish flat washers and heavy hex nuts conforming to standard spec 531.2.2. Existing jam nuts[1] may be reused.
5. Remove rodent screen[1].
6. Remove and dispose of the grout pad[1] according to standard spec 509.3.4.
7. Tighten all nuts that are loose to snug tight (leveling and top nut). Reference the department's Form DT2321 for snug tight torque values.
8. Contact the department for direction of the top nut is not fully snugged or cannot be turned.
9. Once all nuts are snug, remove one top nut at a time[2] and follow the remaining procedure. Top nuts, flat washers, and locking washers (if applicable) shall be discarded, the leveling nuts shall remain, and jam nuts[1] may be reused.
10. Remove rust and dirt, from anchor rod and base plate with a wire wheel or brush.
11. Apply one light coat of fast drying zinc rich primer or spray-on cold galvanized (if rust is present) to the full length of the anchor bolt and at damaged base plates. Repair of any damaged galvanized coating is incidental to the re-tensioning process.
12. Apply wax-based lubricant to the anchor rod and nut.
13. Install top nut to snug tight. Reference the department's form DT2321 for snug tight torque values.
14. Repeat steps 3 through 12 in this specification until all washers and nuts have been replaced.
15. Tension the anchor rod nuts. Follow the department's Form DT2321 procedure steps 5 through 7 and record the tensioning process.
16. Clean, lubricate and install jam nut[1] per step 8 of Form DT2321.

17. Apply two coats of zinc rich primer to any damaged areas of the structure base plates and used jam nuts.
18. Reinstall the rodent screen[1].
19. Complete Form DT2321 for each structure and submit to structure inspector for transmittal to Bureau of Structures and inclusion in HSIS.

Note[1] – Only for structures that have jam nuts, grout, or rodent screens.

Note[2] – If it is a cantilever structure with a connection which has 6 or less anchors, the truss or mast arm shall be supported by a crane during re-tensioning. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed, and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the engineer and BOS for permanent record.

All work for this item, including site clean-up, shall be completed in one shift.

D Measurement

The department will measure Tension Anchor Rod as each individual base plate 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
SPV.0060.4500	Tension Anchor Rod	EACH

Payment is full compensation for tensioning loose anchor rod nuts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

158. Remove Catwalk, Item SPV.0060.4501

A Description

This special provision describes removing an existing catwalk from a sign structure as shown on the plans, and as hereinafter provided.

B (Vacant)

C Construction

Remove and dispose of all portions of the existing catwalk and catwalk connections and L-brackets according to standard spec 204. If L-brackets supporting catwalk are supporting and attached to sign panels, the vertical portion is to remain in place. In this case, cut the vertical portion of the L-bracket at the bottom of the sign panel and remove all parts that extend below the panel.

Exercise care when removing the existing catwalk so the existing sign structure truss is not damaged. Any damage to the sign truss due to the removal operations shall be repaired by the contractor at the contractor's expense.

D Measurement

The department will measure Remove Catwalk as each catwalk that is acceptably removed according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.4501	Remove Catwalk	EACH

Payment is full compensation for removing and disposing of the catwalk; and for repairing damage caused by the contractor.

159. Install ID Plaque, Item SPV.0060.4502.

A Description

This special provision describes installing sign ID plaques as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to SDD 12A4-3 as required by structure type.

C Construction

Install the sign ID plaque according to SDD 12A4-3 as required by structure type. Miscellaneous hardware required to securely install the ID plaque will be considered incidental to this item.

D Measurement

The department will measure Install ID Plaque as each individual sign bridge ID plaque, 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.0060.4502	Install ID Plaque	EACH

Payment is full compensation for installing sign bridge ID plaque; for removing and properly disposing of existing materials being replaced; for furnishing and installing all materials and miscellaneous items to complete the installation; and for fabricating, handling, transporting, and erecting.

160. Secure/Replace Handhole Cover, Item SPV.0060.4503.

A Description

This special provision describes replacing or securing handhole covers as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to the pertinent provisions of standard specification sections 532 and 659 and as shown in the plans.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 532 and 659 and as shown on plans. Replace missing handhole covers. Drill and tap bolt holes as required.

D Measurement

The department will measure Secure/ Replace Handhole Cover Bolt as each individual handhole 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.0060.4503	Secure/ Replace Handhole Cover	EACH

Payment is full compensation for replacing or tightening handhole cover bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

161. Reconnect Storm Sewer, Item SPV.0060.8000.

A Description

This special provision describes surveying existing storm sewer pipes/structures and connecting proposed storm sewer pipe/structures to existing storm sewer pipe/structures or proposed pipe/structures.

B Materials

Use concrete masonry for concrete collar conforming to standard spec 520.2.4.

Furnish storm sewer pipe according to standard spec 608.2.

C Construction

Add the following to standard spec 650.3.2:

Perform survey on existing storm sewer as the plans show prior to ordering pipes/structures. Clean sediment and debris from existing structures prior to survey. Record all storm sewer invert/rim elevations and submit a hard copy to the engineer within 24 hours or as requested by the engineer. Obtain engineer's approval before performing all survey on existing storm sewer to construct the work under this contract.

Remove existing concrete collars, pipe seals or end walls constructed under previous projects or in earlier stages of this project as necessary to reconnect storm sewer. Ensure that positive drainage is achieved when connecting proposed pipe to existing structures or storm sewer. Salvage any structurally sound pipe that requires removal if prior approval is granted by the engineer. Make all necessary connections using the appropriate coupling, concrete collar, or by means approved by the engineer.

D Measurement

The department will measure Reconnect Storm Sewer as each location as specified in the plans, 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.0060.8000	Reconnect Storm Sewer	EACH

Payment is full compensation for performing all work; survey of existing storm sewer, removing seals, end walls and concrete collars, providing all materials, coring, couplings, concrete collars. Any additional pipe or materials required to reconnect the storm sewer shall be considered incidental to this bid item.

162. Temporary Storm Sewer Plug, Item SPV.0060.8001.

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 standard spec 501 and 611.

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 will measure Storm Sewer Plug 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.0060.8001	Storm Sewer Plug	EACH

Payment is full compensation for furnishing and installing all required materials and removal in subsequent stage.

163. Bulkhead Pipe, Item SPV.0060.8002.

A Description

This special provision describes bulkheading a pipe at locations shown on the plan and as hereinafter provided.

B Materials

Furnish brick and mortar according to standard spec 519.

C Construction

Construct according to the plan details.

D Measurement

The department will measure Bulkhead Pipe by 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.0060.8002	Bulkhead Pipe	EACH

Payment is full compensation for furnishing and installing the bulkhead.

164. Native Pollinator Seed Mixture No. 90A, Item SPV.0085.0001.

A Description

This special provision describes preparing seed beds and furnishing and sowing the required seed on areas identified in the plan set.

Conform to standard spec 630 except as modified in this special provision.

B Materials

Conform to standard spec 630.2 and follow guidance for seed mixture 70/70a. Use Table 1 for seed mixture 90A composition.

PLS for seeding mixture 90A must be packaged separately by species and clearly labeled with the vendor’s name, species common and botanical names, gross weight, percent PLS, year of harvest and any specialized treatments that have been applied to ensure or enhance germination.

Table 1 – Native Pollinator Seed mix 90A

Nomenclature			Seed Metrics				
Scientific Name	Common Name	Purity & Germination minimum %	Oz/ Acre	% Mix by Oz/ Acre	lbs/ Acre	lbs/ 1,000 square feet	Seeds/oz
Grasses and Sedges							
Andropogon gerardii	Big Bluestem	PLS	8.00	4.68	0.50	0.011	10,000
Bouteloua curtipendula	Side oats Grama	PLS	32.00	18.72	2.00	0.046	6,000
Carex bicknellii	Bicknell's Oval Sedge	PLS	1.50	0.88	0.09	0.002	17,000
Carex brevior	Fescue Sedge	PLS	2.00	1.17	0.13	0.003	29,000
Carex molesta	Field Oval Sedge	PLS	1.75	1.02	0.11	0.003	25,000
Elymus canadensis	Canada Wild Rye	PLS	30.00	17.55	1.88	0.043	5,200
Elymus virginicus	Virginia Wild Rye	PLS	8.00	4.68	0.50	0.011	4,200
Panicum virgatum	Switch Grass	PLS	1.00	0.58	0.06	0.001	14,000
Schizachyrium scoparium	Little Bluestem	PLS	32.00	18.72	2.00	0.046	15,000
Sorghastrum nutans	Indian Grass	PLS	8.00	4.68	0.50	0.011	12,000
Sporobolus heterolepis	Prairie Dropseed	PLS	3.00	1.75	0.19	0.004	16,000
Alternate Grasses and Sedges[3]							
Calamagrostis canadensis	Blue Joint Grass	PLS					280,000
Carex scoparia	Lance-fruited Oval Sedge	PLS					84,000
Muhlenbergia mexicana	Leafy Satin Grass	PLS					175,000
Spartina pectinata	Prairie Cord Grass	PLS					6,600
Forbs							
Asclepias syriaca	Common Milkweed	PLS	3.00	1.75	0.19	0.004	4,000
Astragalus canadensis	Canadian Milk Vetch	PLS	1.00	0.58	0.06	0.001	17,000
Dalea purpurea	Purple Prairie Clover	PLS	4.00	2.34	0.25	0.006	15,000
Desmodium illinoense	Illinois Tick Trefoil	PLS	1.50	0.88	0.09	0.002	4,300

Nomenclature			Seed Metrics				
Scientific Name	Common Name	Purity & Germination minimum %	Oz/ Acre	% Mix by Oz/ Acre	lbs/ Acre	lbs/ 1,000 square feet	Seeds/oz
Grasses and Sedges							
Echinacea pallida	Pale Purple Coneflower	PLS	2.00	1.17	0.13	0.003	5,200
Eryngium yuccifolium	Rattlesnake Master	PLS	2.00	1.17	0.13	0.003	7,500
Heliopsis helianthoides	False Sunflower	PLS	3.00	1.75	0.19	0.004	6,300
Heuchera richardsonii	Prairie Alumroot	PLS	0.20	0.12	0.01	0.000	700,000
Monarda fistulosa	Wild Bergamot	PLS	1.50	0.88	0.09	0.002	70,000
Penstemon digitalis	Foxglove Beardtongue	PLS	2.00	1.17	0.13	0.003	130,000
Pycnanthemum virginianum	Mountain Mint	PLS	0.75	0.44	0.05	0.001	220,000
Ratibida pinnata	Yellow Coneflower	PLS	3.00	1.75	0.19	0.004	30,000
Rudbeckia hirta	Black-eyed Susan	PLS	4.00	2.34	0.25	0.006	92,000
Rudbeckia subtomentosa	Sweet Black-eyed Susan	PLS	1.50	0.88	0.09	0.002	43,000
Silphium integrifolium	Rosinweed	PLS	2.00	1.17	0.13	0.003	1,200
Silphium laciniatum	Compass Plant	PLS	2.00	1.17	0.13	0.003	660
Solidago rigida	Stiff Goldenrod	PLS	2.50	1.46	0.16	0.004	41,000
Symphyotrichum laeve	Smooth Blue Aster	PLS	1.00	0.58	0.06	0.001	55,000
Symphyotrichum novae-angliae	New England Aster	PLS	1.00	0.58	0.06	0.001	66,000
Tradescantia ohiensis	Ohio Spiderwort	PLS	2.00	1.17	0.13	0.003	8,000
Verbena stricta	Hoary Vervain	PLS	1.50	0.88	0.09	0.002	28,000
Veronicastrum virginicum	Culver's Root	PLS	0.25	0.15	0.02	0.000	800,000
Zizia aurea	Golden Alexanders	PLS	2.00	1.17	0.13	0.003	11,000

Nomenclature			Seed Metrics				
Scientific Name	Common Name	Purity & Germination minimum %	Oz/ Acre	% Mix by Oz/ Acre	lbs/ Acre	lbs/ 1,000 square feet	Seeds/oz
Grasses and Sedges							
Alternate Forbs[3]							
Geum aleppicum	Yellow Avens	PLS					20,000
Parthenium integrifolium	Wild Quinine	PLS					7,000
Rudbeckia triloba	Brown-eyed Susan	PLS					34,000
Silphium terebinthinaceum	Prairie Dock	PLS					1,000
Solidago speciosa	Showy Goldenrod	PLS					95,000
Symphyotrichum oolantangiense	Sky Blue Aster	PLS					80,000
Verbena hastata	Blue Vervain	PLS					93,000
Vernonia fasciculata	Common Ironweed	PLS					24,000

Diversity and Density Metrics

Plant Type	Species Richness	Purity & Germination minimum %	Oz/Acre	% Mix by Oz/ Acre	lbs/Acre	lbs/ 1,000 square feet	Seeds/oz
Grasses and Sedges	11		127.25	74.44	7.95	0.183	
Forbs	23		43.70	25.56	2.73	0.063	
Totals	**34**		**170.95**	**100.0**	**10.68**	**0.245**	

[1]Seed mix is designed for 1.0 acre.

[2]Alternate species are provided below each section (graminoids and forbs). Wisconsin blooming periods are defined as Spring (April-May), Summer (June-August), and Fall (September-October).

[3]The contractor may, if the engineer approves, substitute an alternate for a required species that is not available using the same percentage as specified for the required species. Use a different alternate for each unavailable required species. Provide documentation showing that a required grasses and sedges or forb is not available before using an alternate.

If seeding bare soil with native seed mixture 90A, include the nurse crop as follows. Do not seed native seed mixtures between June 15 and October 15 unless the engineer allows.

Install nurse crop with permanent native seed mix. Select appropriate seed combinations from table below based on timing of installation. Annual rye will be installed with common oats or winter wheat. Nurse crop is not suitable for areas with standing water.

Table 2 – Nurse Crop

Scientific Name	Common Name	Installation Rate	
		(lbs/acre)	(lbs/1000 sq. ft.)
Spring seeding before June 15			
Avena sativa	Common Oats	35	0.8
Lolium multiflorum	Annual Rye[1]	5	0.12
When the engineer allows between June 15 and October 15			
Avena sativa	Common Oats	35	0.8
Lolium multiflorum	Annual Rye[1]	5	0.12
Fall seeding after October 15 and dormant seeding			
Triticum aestivum	Winter Wheat[2]	45	1
Lolium multiflorum	Annual Rye[1]	5	0.12

[1]Spring (April-May) and late summer (August-early September) preferred for annual rye but may be established in summer or a dormant seeding as seed will overwinter.

[2]August-September preferred for winter wheat but may be used as dormant seeding as seed will overwinter and germinate in the spring.

C Construction

Conform to standard spec 630.3 following guidance for seed mixture 70/70a.

Seeding will not be allowed between June 15 and October 15. There will be no exceptions.

Sow seeds at a rate of 0.245 pounds per 1000 square feet.

D Measurement

The department will measure the Seeding bid items by the equivalent pound acceptably completed, measured based on net weights of seed shipments or weighed on department-approved scales the contractor furnishes. The department will deduct quantities wasted or not actually incorporated in the work according to the contract. The department will determine the equivalent pounds of seed furnished and applied by dividing the actual pounds of seed applied by the sum of the unadjusted and adjusted percentages, determined as specified in standard spec 630.3.5 of the various species in the seed mixture sown.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.0001	Seeding Mixture No. 90A	LB

Payment is full compensation for providing, handling, and storing seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering, and firming the seed.

165. Concrete Barrier Double Faced Special, Item SPV.0090.0001.

A Description

This special provision describes constructing concrete barrier conforming to standard spec 603, details shown in the plans and as modified in this special provision.

B (Vacant)

C Construction

Construct the Concrete Barrier Double Faced Special to present a smooth, uniform appearance in its final position conforming to the horizontal and vertical lines the plans show or ordered by the engineer, and free of lumps, sags or other irregularities.

D Measurement

The department will measure Concrete Barrier Double Faced Special 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.0090.0001	Concrete Barrier Double Faced Special	LF

Payment is full compensation for providing the barrier; for excavating and backfilling; for disposing of excess material; and for restoring the grade.

166. Pipe Underdrain 6-inch Special, Item SPV.0090.0002.

A Description

This special provision describes providing necessary subsurface drainage by constructing trenches, installing the designated pipes or drainage devices, wrapping in geotextile fabric, connecting the underdrain to receiving structures, providing cored connection holes, back-plastering and or mortaring connections to storm sewer structures (both on the external and internal sides of the receiving structure), providing and installing PVC or HDPE fittings, and caps or plugs, for excavating, plowing, backfilling the trenches with the specified backfill material according to standard spec 310, 612 and 645, salvaging; disposing of surplus material; and restoring the work site as shown on the plans and details, and as hereinafter provided.

B Materials

B.1 Base Aggregate

Use only base aggregate open graded conforming to standard spec 310.2.

B.2 Pipe Underdrain Wrapped

Utilize Pipe Underdrain conforming to standard spec 612.

C Construction

Excavate trench as shown in plans for Pipe Underdrain 6-Inch Special. Install Pipe Underdrain along bottom of trench. Wrap the trench in Geotextile Fabric Type DF Schedule A. Backfill trench with Base Aggregate Open Grade.

D Measurement

The department will measure Pipe Underdrain 6-Inch Special by the linear foot, acceptably completed. The department will measure along the centerline of the pipe, center to center of junctions and fittings.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0002	Pipe Underdrain 6-inch Special	LF

Payment is full compensation for providing, handling, and placing all materials, including pipe, geotextile fabric, base aggregate open graded, providing cored connections, making all necessary connections to the receiving structures, performing back-plastering and or mortaring of underdrain connections to storm sewer structures, providing and installing all fittings, and caps or plugs; for furnishing all excavating, plowing, and re-compacting, salvaging; disposing of surplus material; and restoring the work site.

167. Cable Aerial Aluminum 6 AWG Triplex, Item SPV.0090.1001.

A Description

Furnish, install, and connect temporary overhead cable complete with all splicing, identifications, terminations and guy wires at wood poles. Remove the overhead cable after the temporary lighting is approved for removal.

B Materials

Overhead cable shall be aluminum conductors according to ASTM B 230 and shall be Class B stranded according to ASTM B 231, and shall conform to the values listed in the table below:

Phase Conductor				Messenger Wire	
Size AWG	Stranding	Avg. Insulation Thickness		Min. Size AWG	Stranding
		mm	mils		
6	7	1.1	45	6	6/1
4	7	1.1	45	4	6/1

The aerial cable shall be an assembly of insulated aluminum conductors and a steel messenger wire according to ANSI/ICEA S-76-474. The cable assembly may have the messenger wire intertwined with the insulated cables or lashed to the insulated cables by a factory wrap. The cable shall be assembled according to ANSI/ICEA S-76-474.

All cable shall be rated 600-V. The cable shall be rated 105º C dry and 90º C wet and shall be suitable for installation in wet and dry locations, and resistant to oils and chemicals, and UV rated. Clearly print on the cable the UL listing mark, cable voltage, insulation type and ratings, as well as the cable size, in a color contrasting with the insulation color. When specified, identify each cable installed with its complete circuit number at each termination, splice, junction box or other location where the wire is accessible.

Color code all electric cables installed. Color code neutral wires white. Single phase three wire runs of cable shall be color-coded one black, one red, and one white. Where applicable, color code insulated ground wires green. Color striping of cables will not be acceptable in lieu of the specified color-coding means.

Make the luminaire connections to the aerial cable with listed parallel tap insulation piercing connectors. The connector shall be rated for 600-V and be listed under UL Standard 486B.

C Construction

Overhead cable as shown on temporary lighting plans will not be needed for final lighting. Remove temporary overhead cable. Removal of temporary overhead cable will be incidental to this pay item and it will become property of the contractor. The bid price shall reflect the salvage value of the temporary overhead cable.

Upon written request of the contractor, the engineer may permit to reuse removed temporary overhead cable of ampacity equivalent to the specified cable and of a type and condition approved by the engineer, if possible.

Install guy wires as necessary per WisDOT standard details for Span Wire Temporary Traffic Signal.

Conform to standard spec 655.3.5(9) for ground resistance testing.

D Measurement

The department will measure Cable Aerial Aluminum 6 AWG Triplex in length by the linear foot in place and will be taken as the length of the messenger wire. Measurement will be made in a straight line between changes in direction and to the centers of light standards and control cabinets. Sag of the aerial cable or vertical cable will not be measured for payment. The rewiring to facilitate relocation of the cable due to staging or other construction requirements will not be measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1001	Cable Aerial Aluminum 6 AWG Triplex	LF

Payment is full compensation for providing electrical wire; for making all connections; for providing all connectors, including wire nuts, fuses, fuse holders, splices, tape, and insulators; for providing messenger wire, and guy wires; and for removing temporary overhead cable.

168. Outdoor Rated Network Cable, Item SPV.0090.2000.

A Description

This special provision describes furnishing and installing outdoor rated network cable in new or existing conduit or as directed by the engineer. It also includes installing state-furnished network communications extenders as required.

B Materials

Furnish outdoor rated Category 5e, or better, UTP cable with water-blocking flooded core and UV-resistant polyethylene jacket. Cable shall consist of 4-pairs of 24 AWG solid copper conductors and shall meet the requirements of ANSI/TIA/EIA 5 68A Category 5e, CENELEC EN50173, ICEA S-90-661, and ISO/IEC 11801.

Furnish an RJ45 connector for each end of the cable.

State-furnished network communications extenders.

C Construction

Install the cable following the manufacturer’s installation guidelines.

Install the RJ45 connectors (if not done prior to installation) according to manufacturer’s installation guidelines.

Install a network communications extender as shown on the plans when cable length exceeds 100 meters.

Use a purpose built “Pass-Fail” network cable tester to test the network cable installation for Category 5, Class E compliance. Repair any connections or cable as needed for the test to register a “Pass”.

Connect the cable to the devices on each end as shown on the plans or as directed by the engineer.

D Measurement

The department will measure Outdoor Rated Network Cable, acceptably installed and tested, by the linear foot.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.2000	Outdoor Rated Network Cable	LF

Payment is full compensation for furnishing, installing, and testing the outdoor rated network cable; for installing network communications extenders where required; and for connecting the cable to the devices at each end of the cable.

169. Fiber Optic Warning Tape, Item SPV.0090.3000.

A Description

This special provision describes furnishing and installing fiber optic warning tape above all conduit containing fiber optic cable.

B Materials

Provide underground warning mesh that is constructed of polypropylene and is fluorescent orange in color. Provide 6-inch detectable marking tape that has the words “Buried Fiber Optic Cable” and is orange in color.

C Construction

Lay underground warning mesh above all underground conduits, 12-inches below grade. The width of the warning mesh shall be the same as the width of the trench. Lay directly above the underground warning mesh, a 6-inch detectable marking tape that has the words “Buried Fiber Optic Cable” and is orange in color.

D Measurement

The department will measure Fiber Optic Warning Tape in length by the linear foot of tape, measured along the centerline of the conduit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.3000	Fiber Optic Warning Tape	LF

Payment is full compensation for furnishing and installing the marking tape; properly disposing of surplus materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

170. 9.625-Inch Micropile Foundation, Item SPV.0090.4000.

A Description

Work under this item consists of furnishing and installing micropiles and pile top attachments for this project. Perform work according to pertinent parts of the standard specifications, the plans, and these special provisions.

This section also describes methods used to determine the factored design load, as shown on the plans.

The construction of the micropiles shall be performed according to the Wisconsin Bridge Manual (LRFD) and the 2020 AASHTO LRFD Bridge Design Specifications.

A.1 Definitions

Admixture: Substance added to the grout to control bleed and/or shrinkage, improve flowability, reduce water content, or retard setting time.

Bond-Breaker: A sleeve placed over the steel reinforcement to prevent load transfer.

Bond Length: The length of the micropile that is bonded to the ground and used to transfer the applied axial loads to the surrounding soil.

Casing: Steel tube introduced during the drilling process in overburden soil to temporarily stabilize the drill hole. This is usually withdrawn as the pile is grouted, although in certain types of micropiles, some casing is permanently left in place to provide added pile reinforcement. Plans show locations where casing must be permanently left in place.

Centralizer: A device to support and position the reinforcing steel in the drill hole and/or casing so that a minimum grout cover is provided.

Coupler: The means by which load capacity can be transmitted from one partial length of reinforcement to another.

Duplex Drilling: A method of progressing and cleaning out a hole for installing a micropile in which the outer casing is progressed simultaneously with an inner drill rod string. The casing is cleaned out using reverse circulation using water. Intimate contact between the soil and an outer casing is maintained during drilling. Withdrawal and/or pulling up of the casing during drilling, or failure to fully support the hole for the micropile prior to introduction of the grout into the hole shall not be permitted.

Encapsulation: A corrugated or deformed tube protecting the reinforcing steel against corrosion, which is sometimes referred to as sheathing.

Factored Design Load: The maximum test load that verification and proof load test micropiles must safely carry. The factored design load is equal to the factored axial load using LRFD methodology.

Factored Resistance: The ultimate resistance composed of the lower of the geotechnical resistance and structural resistance, multiplied by resistance factors applied as is shown on the plans. The factored resistance is greater than or equal to the factored design load.

Free (unbonded) length: The designed length of the micropile that is not bonded to the surrounding ground or grout.

Micropile: A small-diameter, bored, cast-in-place composite pile, in which the applied load is resisted by steel reinforcement, cement grout and frictional grout/ground bond.

Nominal Grout-to-Ground Bond Values: The estimated ultimate geotechnical unit grout-to-ground bond strength selected for use in design.

Non-Production Test Piles: Sacrificial test piles that are not incorporated into the substructure, and which are abandoned after completion of testing. Non-production test piles shall be installed using the same equipment, methods, materials, and under the same headroom as production piles.

Overburden: Material, natural or placed, that will require cased drilling methods to provide an open borehole to underlying strata.

Positive Circulation or Flush: A method of progressing and cleaning out a hole for a micropile wherein water is injected into the hole and returns upward along the inside of the drill casing.

Post-grouting: The injection of additional grout into the load transfer length of a micropile after the primary grout has set, also known as regrouting or secondary grouting. A method used to increase micropile capacity after the grout column has reached initial set. Grout is pumped at high pressure through a sleeved port pipe (post-grout tube), fracturing and expanding the grout column. A positive displacement piston pump with a liquid filled pressure gauge located near the micropile head is used to pump the grout, and packers are used to isolate the grout ports.

Pressure Grouting: A method used to develop micropile capacity wherein controlled pressure is applied continuously to the top of the fluid grout column using a grout pump to inject additional grout, and is applied continuously within the bond length.

Primary Grout: Portland-cement-based grout injected into the micropile hole prior to or after the installation of the reinforcement to direct the load transfer to the surrounding ground along the micropile.

Production Pile: A pile used for supporting a structure. Production piles shall be installed using the same equipment, methods, and materials as accepted test piles.

Production Test Piles: Test piles installed prior to the installation of other production piles and which are incorporated into the substructure. Production test piles are installed only at the contractor’s option and risk. Production test piles shall be installed using the same equipment, methods, materials, and under the same headroom as other production piles.

Proof Load Test: Incremental loading of a production micropile, recording the total movement at each increment.

Recirculation: A method of handling drill fluid where the fluid coming back out of the hole is captured in a pan and reused.

Reinforcement: The steel component of the micropile that accepts and/or resists applied loadings.

Required Ultimate Resistance: The limiting resistance of the geotechnical resistance or structural resistance.

Reverse circulation: A method of cleaning the inside of casing. Water is circulated down through the drill rods and returns upward through the inside of the casing to flush the casing clean.

Spacer: A device to separate elements of a multiple-element reinforcement.

Tremie Grouting: A method used to place grout in a wet hole. A 1/2-inch to 1-inch inside diameter grout tube is placed to the bottom of the drill hole. While keeping the tube opening submerged in the grout, grout is pumped into the hole and displaces the drill fluid.

Verification Load Test: Pile load test performed to verify the design of the pile system and the construction methods proposed, prior to installation of other piles.

A.2 Contractor Qualifications

A.2.1 Micropile Contractor

The micropile contractor may be the contractor or his approved subcontractor performing this work, and shall be a reputable firm regularly engaged in the design and installation of micropiles. The micropile contractor shall be experienced in the construction and load testing of micropiles and have successfully constructed at least 5 projects in the last 5 years involving construction totaling at least 100 micropiles of similar capacity and type to those required in these plans and specifications. The contractor shall have previous micropile drilling and grouting experience in soil similar to project conditions. The contractor shall submit construction details, structural details and load test results for at least three previous successful micropile load tests from different projects of similar scope to this project.

A.2.2 Field Supervisor

The contractor shall assign a designated representative to supervise the work with experience on at least 3 projects of similar scope to this project completed over the past 5 years. Provide written verification of the supervisor's experience. Prior to the initiation of micropile installation, the qualifications of the contractor, or his subcontractor, and the field supervisor will be subject to review and approval by the engineer. The field supervisor shall be present at the work site at all times during micropile operations.

A.2.3 On-Site Foreman and Drill Rig Operator

The on-site foremen and drill rig operators shall also have experience on at least 3 projects over the past 5 years installing micropiles of equal or greater capacity than required in these plans and specifications.

A.2.4 Micropile Design Engineer

The micropiles shall be designed by a professional engineer licensed in Wisconsin with experience in the design of at least three successfully completed micropile projects over the past 5 years, with micropiles of similar capacity to those required in these plans and specifications. The micropile design engineer may be either an employee of the contractor or a separate consultant design engineer meeting the stated experience requirements. Contractor or his approved subcontractor shall identify the design consultant and the owner for each referenced project for which this type of work was performed. Contractor or his approved subcontractor shall provide proof to the engineer of each project no later than 30 calendar days after Notice to Proceed. Such evidence shall include the name and location of the project, client name and address, and the name and telephone number of a representative of the consultant and owner for whom the work was performed and who can attest to successful completion of the Work.

A.2.5 Documentation

A project summary shall be included for each referenced project. The project summary shall contain the start date and completion date of the project, total contract amount for the micropiles and a detailed description of the project, site conditions, and subsurface conditions. The project description shall include the nature of the project, details of the micropile design, installation techniques, total length of micropiles installed, design capacity and load test capacity, individual length of pile installed, and any other information relevant to demonstrating contractor's qualifications. The engineer may suspend the work if the contractor uses non-approved personnel. If work is suspended, the contractor shall be fully liable for all resulting costs and no adjustment in contract time will result from the suspension.

A.3 Submittals

Work other than test pile installation shall not begin until the construction submittals have been received, reviewed, and accepted in writing by the engineer. Allow the engineer 21 calendar days to review the construction submittals after a complete set has been received. Additional time required due to incomplete or unacceptable submittals shall not be cause for delay or impact claims. All costs associated with incomplete or unacceptable contractor submittals shall be the responsibility of the contractor. Review by engineer does not relieve the contractor of his responsibility for the design and installations of the micropiles that are capable of supporting the factored design loads and meeting the criteria shown on the plans.

Submit the following:

1. Contractor qualifications noted above.
2. Design calculations, including:
    a. Grout-to-ground bond and axial resistance and any other pertinent calculations.
    b. Minimum tip elevation (no less than that included in the plans and required to satisfy the required ultimate resistance).
    c. Factored design load shown on the plans.
    d. Resistance Factors shown on the plans.
    e. Design for any temporary construction load case desired by the contractor.
    f. The design calculations shall be signed and dated by a professional engineer registered in the State of Wisconsin.
3. Shop Drawings, including:
    a. Micropile diameter, casing diameter, casing thickness, bond length, grout compressive strength.
    b. Permanent casing nominal diameter, length, and size.
    c. Reinforcement.
    d. Post-grout tube and grouting pressure.
    e. Pile-to-footing connection details.
    f. Working and staging areas.
    g. Layout drawings showing the proposed sequence of pile installation.
    h. The shop drawings shall be signed and dated by a professional engineer registered in the State of Wisconsin.
4. Site Specific Work Plan (SSWP)
    a. Installation equipment, including lifting capacities, vertical clearance compared to clearance available, manufacturer's information, model, size, and type of equipment.
    b. Micropile installation methods including; the consecutive steps and the approximate time required for each step and labor and equipment usage schedule, any interference to any existing structures, facilities, or utilities as a result of the micropile installation, methods to be used to control and verify pile position and alignment, procedures for proper removal and disposal of all wastes, including groundwater, and spoils including drilling fluid, cuttings, and grout, details of placement, splicing and centering devices for steel reinforcing, and the procedures for placing the grout.
    c. Details for pressure grouting, when used, including the method, grouting pressure, procedure, and equipment to be used. It shall also include details for post-grouting, when used, including the method, grouting pressure, grout tube arrangements, procedure, and equipment to be used.
    d. Methods to flush the drilled hole and methods or equipment for measuring volumes of grout placed in each hole, depths, and pressures, and estimated curing time for grout to achieve specified strength. If available, the grouting rate shall be calculated based on the initial pump pressures or static head on the grout and losses throughout the placing system, including anticipated head of drilling fluid (if applicable) to be displaced.
5. Micropile Verification Tests (as outlined in special provisions elsewhere in this contract)
6. Materials Certifications
    a. Certified mill test reports for the reinforcing steel or coupon test results for permanent casing without mill certification. The ultimate strength, yield strength, elongation, and material properties composition shall be included. (For API N-80 pipe casing, coupon test results may be submitted in lieu of mill certification.)
    b. Certification of FHWA's Buy American requirements contained in 23 CFR 635.410.
7. Grout mix design and documentation from an independent testing laboratory; including proportions of the batch, the manufacturer of the components, and compressive strength.

8. Engineering Installation Records
    a. The records shall be submitted within 24 hours after installation is completed for the micropile. The records shall include;
    b. Micropile number designation, pile materials and dimensions.
    c. Elevation of top of micropile, elevation and dimension of the top of the bond length
    d. Micropile drilling logs including start and finish time(s), final tip elevation, cut-off elevation, factored design load, resistance factor and testing method relating to the resistance factor, corresponding required ultimate resistance, type, length, and size of reinforcing steel, and description of unusual installation behavior or conditions.
    e. Grout pressures attained if pressure grouting or post-grouting is performed.
    f. Post-grouting details, when performed, grout quantities pumped, theoretical grout volume, and time required for each operation.
9. As-Built Plans
    a. Submit upon the completion of the micropile installation, the following;
    b. Pile location, depth and inclination from vertical, factored design load, resistance factors, corresponding required ultimate resistance and cross sectional properties.

A.4 Pre-Construction Meeting

A pre-construction meeting will be scheduled by the engineer and held prior to the start of micropile construction. The engineer, prime contractor, micropile specialty contractor, micropile design engineer, excavation contractor and geotechnical instrumentation specialist (if applicable) shall attend the meeting. Attendance is mandatory. The pre-construction meeting will be conducted to clarify the construction requirements for the work, to coordinate the construction schedule and activities, and to identify contractual relationships and delineation of responsibilities amongst the prime contractor and the various subcontractors; specifically those pertaining to excavation for micropile structures, anticipated subsurface conditions, micropile installation and testing, micropile structure survey control and site drainage control.

B Materials

Furnish materials new and without defects. Remove defective materials from the jobsite at no additional cost. Materials for micropiles shall consist of the following:

B.1 Steel Casing

Permanent steel casing/pipe shall have the diameter and at least the minimum wall thickness shown on the approved Shop Drawings. Provide steel casing with flush joint for micropiles conforming to the tensile requirements of API 5CT or 5L Grade N80. The casing should be able to withstand the stresses associated with advancing it into the ground, in addition to the stresses due to hydrostatic and earth pressures. The casing may be new "Structural Grade" (a.k.a. "Mill Secondary") steel pipe meeting above but without mill certification, free from defects (dents, cracks, tears) and with two coupon tests per truckload delivered to the fabricator.

For permanent casing/pipe that will be welded for structural purposes, the following material conditions apply. The carbon equivalency (CE) as defined in AWS D1.l, Section XI5.1, shall not exceed 0.45, as demonstrated by mill certifications. 2. The sulfur content shall not exceed 0.05%, as demonstrated by mill certifications.

For permanent casing/pipe that will be shop or field welded, the following fabrication or construction conditions apply. The steel pipe shall not be joined by welded lap splicing, welded seams and splices shall be complete penetration welds, partial penetration welds may be restored in conformance with AWS D1.1, and the proposed welding procedure certified by a welding specialist shall be submitted by the contractor to the engineer for approval. Threaded casing joints shall develop at least the required compressive, tensile, and/or bending strength used in the design of the micropile.

B.2 Reinforcing

Reinforcing steel shall be deformed bars according to ASTM A 615/AASHTO M31, Grade 420 or Grade 520 or ASTM A 722/AASHTO M275, Grade 1035. When a bearing plate and nut are required to be threaded onto the top end of reinforcing bars for the micropile top to footing anchorage, the threading may be continuous spiral deformed ribbing provided by the bar deformations (e.g., Dywidag or Williams continuous threadbars) or may be cut into a reinforcing bar. If threads are cut into a reinforcing bar, the next larger bar number designation from that shown on the plans shall be provided, at no additional cost. Bar couplers, if required, shall develop the ultimate tensile strength of the bars without evidence of any

failure, and be sized such that they allow the passage of grout between the casing and coupler. The corrosion protection required is a function of the site conditions and is specified on the plans. Requirements for particular corrosion protection methods are specified below:

B.2.1 Encapsulation

Encapsulation (double corrosion protection) shall be shop fabricated using high-density, corrugated polyethylene tubing conforming to the requirements of ASTM D3350/AASHTO M252 with a nominal wall thickness of 0.8 mm. The inside annulus between the reinforcing bars and the encapsulating tube shall be a minimum of 5mm and be fully grouted with non-shrink grout.

B.2.2 Epoxy Coating

The minimum thickness of coating applied electrostatically to the reinforcing steel shall be 0.3 mm. Epoxy coating shall be according to ASTM A775 or ASTM A934. Bend test requirements are waived. Bearing plates and nuts encased in the pile concrete footing need not be epoxy coated unless the footing reinforcement is epoxy coated.

B.2.2 Galvanization

Galvanization need not be used; if used, galvanization shall meet the requirements of ASTM A-153.

B.2.3 Sheathing

Smooth plastic sheathing, including joints, shall be watertight. Polyvinyl chloride (PVC) sheathing shall conform to ASTM D 1784, Class 13464-B.

B.3 Cement Grout

Cement Grout shall be neat cement or sand/cement mixture with a minimum 3-day compressive strength of 2,000 psi and a 28-day compressive strength of 4,000 psi per AASHTO T106/ASTM C109.

The grout shall be pumpable and consisting of a non-shrinking mixture of Portland cement, mineral filler, plasticizer, sand and water so proportioned and mixed as to provide a grout capable of maintaining the solids in suspension without appreciable water gain, yet which will laterally penetrate and fill any voids in foundation material.

All cement shall be Portland cement conforming to ASTM C 150/AASHTO M85, Types I, II, III or V.

If sand-cement grout is used, sand shall conform to ASTM C 144/AASHTO M45. Sand shall conform to ASTM C 404, Size No. 1.

Water used in the grout mix shall conform to AASHTO T 26 and shall be potable, clean, and free from substances that may be injurious to cement and steel.

Mineral filler shall be finely powdered siliceous material, which possesses the property of chemically reacting in the presence of moisture with calcium hydroxide at ordinary temperatures to form compounds possessing cementitious properties.

Plasticizer shall be a compound possessing characteristics which will increase the flowability of the mixture, assist in the dispersal of cement grains, and neutralize the setting shrinkage of the cement mortar.

Any admixtures with chlorides are prohibited. Admixtures shall conform to the requirements of ASTM C 494/AASHTO M194. Admixtures that control bleed, improve flowability, reduce water content, and retard set may be used in the grout, subject to the review and acceptance of the engineer. Admixtures shall be compatible with the grout and mixed according to the manufacturer’s recommendations. Expansive admixtures shall only be added to the grout used for filling sealed encapsulations and anchorage covers. Accelerators are not permitted.

Materials shall be stored according to ACI 304.

Molding and testing of grout specimens shall be according to ASTM C 109.

B.4 Centralizers

Centralizers shall be fabricated from schedule 40 PVC pipe or tube, steel, or a material that is non-detrimental to the reinforcing steel. Centralizers shall be able to withstand installation without causing misalignment of the reinforcement and shall allow free flow of grout through them. Wood shall not be used.

C Construction

C.1 General

Coordinate the work and the excavation so the micropile structures are safely constructed. Perform the micropile construction and related excavation according to the plans and approved submittals. The contractor shall use appropriate micropile installation procedure as approved by engineer to achieve the required pile capacity. The site has tight railroad clearances among other constraints, and it is the responsibility of the contractor to assess this and properly select equipment and construction methods to allow the work to be performed within the constraints.

Use only one type of micropile throughout the structure unless shown on the plans or the engineer allows otherwise.

Coordinate all micropile installation operations so that no damage or displacement occurs to nearby structures (including adjacent foundations) and utilities because of micropile installation operations. All construction-induced damage shall be repaired to the satisfaction of the engineer at no additional cost to the department.

Do not install micropiles for any substructure unit until the excavation for that unit is complete. Remove any material within the limits of the footing to the correct elevation before placing concrete. All necessary removal of material will be at no expense to the department.

Piles shall not be installed within 5-feet of piles that are less than 24 hours old.

Install all micropiles with a variation of not more than ¼ inch per foot from the vertical or from the batter shown on the plans. Install micropiles for bents so that no pile is more than 3/4 inches from the position shown on the plans after installation, and that placing the cap on the micropiles does not adversely affect the resistance of the micropiles. Ensure that all other micropiles are within 1 1/2 inches of the position the plans show after installation.

Do not damage micropiles by applying excessive force to correct misalignment.

Remove and replace all micropiles that are in the engineer's judgment unsuitable for use due to improper positioning, misalignment, or damage such as bends, breaks, kinks, deformation, cracking, or spalling resulting from internal defects, improper handling, or improper drilling. Other corrective measures may be used if approved by the engineer. All corrective measures shall be at no expense to the department.

Conform to the requirements of standard spec 550.3.4 for all welds and welding necessary for micropile splices.

C.2 Casing Installation

Permanent casing shall be fully supported along its length and in intimate contact with the soil or encapsulated in grout which shall be in intimate contact with the soil.

Vibratory pile driving hammers shall not be used to advance casing. Driven or rotary spinning techniques may be used to advance casing.

C.3 Drilling

The contractor shall use appropriate methods to maintain a stable hole and prevent collapse and disturbance to the drilled hole during the installation of the micropile. The drilling equipment and methods shall be suitable for drilling through the conditions to be encountered, without causing damage to any overlying or adjacent structures or utility services. The drill-hole must be open along its full length to at least the design minimum drill-hole diameter prior to placing grout and reinforcement.

The contractor's proposed method(s) to provide drill-hole support and to prevent detrimental ground movements shall be reviewed by the engineer. Detrimental ground movement is defined as movement which requires remedial repair measures.

Use of drilling fluid containing bentonite is not allowed. Temporary casing or other approved methods of micropile drill-hole support will be required to permit the micropile shaft to be formed to the minimum design drill-hole diameter. Advance the hole using duplex drilling methods and reverse circulation within the drill casing. Positive circulation or flushing, a method of progressing and cleaning out a hole for a micropile wherein water is injected into the hole and returns upward along the outside of the drill casing will not be allowed. The use of air to clean the casing will not be allowed.

Contractor shall use appropriate methods to maintain a stable open hole during the installation of the micropile.

Perform drilling and excavation in such a manner to prevent collapse of the hole. The drill tool shall be kept no further than 3 inches ahead of the end of the drill casing at all times. For the cutting shoe used for advancing the casing, the cutting shoe diameter shall not exceed the outer diameter of the casing plus 6.4 mm (0.25-inch). Drill fluid and cuttings shall be controlled by diverters, or other methods approved by the engineer that produce a closed system allowing all drill spoil to be placed in settling tanks for separation of fluid and solids for eventual disposal. It is contractor's responsibility to provide drilling methods and equipment capable of attaining the required micropile depth and capacity. Use of bentonite or polymer slurry will not be permitted.

Drilling casing shall be in intimate contact with the bored holes sides at all times. Casing spinning, sudden or rapid withdrawn and plunge or similar operating procedures that may result in disturbance, collapse or an unsupported drill hole shall not be permitted during micropile installation.

If obstructions, such as boulders, are encountered during excavation for a pile, progress through them by means of coring, using a tri-cone roller bit, or appropriate rock cutting bit. Use of drop type impact hammers and blasting will not be permitted.

The use of a down-the-hole hammer (DTHH) must be approved by the engineer. The use of the down-the-hole hammer will not be allowed within 20-feet of micropiles that were grouted within the previous 24 hours. If, when using the DTHH disturbance to freshly grouted piles greater than 20-feet away is observed, then contractor shall stop using the down-the-hole hammer until such time that any disturbance to completed piles is avoided. If, during the installation of the micropiles, adverse effects on adjacent structures or utilities are observed, then further use of the DTHH will not be allowed until remedial actions are provided to eliminate these adverse effects. The costs associated with the remedial measures will be contractor's responsibility.

Control the procedures and operations to preclude undermining, disturbance, or settlement to adjacent structures or utilities. If any disturbance occurs, halt operations and modify the equipment and/or procedures so that no further disturbance occurs. Repair any disturbance to the satisfaction of the engineer and at no cost to the department.

Control the procedures and operations so as to prevent the soil at the bottom of the hole from flowing into the hole. Maintain the fluid level inside the hole above the ground water level at all times during installation and cleaning out. Monitor and record the rate of fluid flow used to progress the hole.

Wastes and spoils must be disposed of in an appropriate manner. Deposition of waste and spoil on local streets and in sewers will not be permitted.

Do not drill a hole, or place grout within 5-feet (center-to-center) of a micropile until the grout for the micropile has been in place for a minimum of 24 hours.

Pre-drilling more than one hole or incomplete drilling of holes shall not be permitted unless otherwise approved by the engineer. All incomplete micropiles that are in-progress shall be capped or covered during overnight or weekend breaks for safety and to prevent any objects from falling in.

Complete drilling and install steel casing to the required depths. Clean hole with water before installing reinforcing steel or grout and until all contaminated water, drilling fluid, and cuttings are removed and a clean return is observed.

C.3.1 Concrete Coring Through Existing Retaining Wall Footings

For micropiles installed through existing retaining wall footings, core through the footing using appropriate equipment according to plan details. Contractor shall alternate, at no cost to the department, use of appropriate drilling and coring equipment for drilling through soil and coring through concrete during the installation of micropiles through existing retaining wall footings.

C.3.2 Obstructions

Prepare for the possibility to dispatch obstructions during drilling, since soil profile indicates the possibility of encountering of gravel, cobbles, and boulders. Keep on-site appropriate equipment to dispose of gravel, cobbles, boulders, or other obstructions in the event they are encountered. The time, labor and equipment to dispose of obstructions are incidental to this special provision and will not be paid for separately.

C.4 Placing Reinforcement

Reinforcement may be placed either prior to grouting or placed into the grout-filled drill-hole before temporary casing (if used) is withdrawn. Reinforcement surface shall be free of deleterious substances such as soil, mud, grease or oil that might contaminate the grout or coat the reinforcement and impair bond. Reinforcement, if used, shall be sufficiently robust to withstand the installation and grouting process and the withdrawal of the drill casings without damage or disturbance. Reinforcing steel bars shall be placed in each micropile as shown on the plans.

The contractor shall check micropile top elevations and adjust all installed micropiles to the planned elevations. Centralizers and spacers (if used) shall be provided at 10-foot centers maximum spacing. The upper and lower most centralizer shall be located a maximum of 5-feet from the top and bottom of the micropile. Centralizers and spacers shall permit the free flow of grout without misalignment of the reinforcing bar(s) and permanent casing. The central reinforcement bars with centralizers shall be lowered into the stabilized drill-hole and set. The reinforcing steel shall be inserted into the drill-hole to the desired depth without difficulty. Partially inserted reinforcing bars shall not be driven or forced into the hole. Contractor shall re-drill and reinsert reinforcing steel when necessary to facilitate insertion.

Lengths of casing and reinforcing bars to be spliced shall be secured in proper alignment and in a manner to avoid eccentricity or angle between the axes of the two lengths to be spliced.

Splices and threaded joints shall meet the requirements the materials requirements of this special provision. Threaded pipe casing joints shall be located at least two casing diameters (OD) from a splice in any reinforcing bar. When multiple bars are used, bar splices shall be staggered at least 1-foot.

C.5 Grouting

The grouting procedure and the grouting pressure used for the installation of the micropiles must be submitted to the engineer for approval before any grouting operations begin. The contractor shall also determine the micropile casing size, final drill-hole diameter and bond length, and central reinforcement steel sizing necessary to develop the specified load capacities and load testing requirements. The contractor is also responsible for estimating the grout take. Post-grouting may be required in production piles if the static load test program indicates that post-grouting is required to achieve the design capacity. If post-grouting is proposed, load tests have to be performed on post-grouted piles which shall be approved by the engineer with no additional costs to the department.

Place grout by means of a tremie pipe extending to the bottom of the micropile and pump upward to displace the fluid in the hole until grout returns at the top of the pile. The above operation shall be continued until the grout coming out has the same consistency as the grout being pumped into the micropile through the tremie pipe.

The steel reinforcement and centralizers shall be lowered into the tremie-grouted cased holes to the desired depth without difficulty. Partially inserted reinforcing bars shall not be driven or forced into the hole. Centralizer shall be located at distances shown on the plans.

Micropile shall be tremie grouted the same day the load transfer bond length zone is drilled. Construction cold joints will not be permitted in the grouted concrete column. After tremie grouting has been completed and the grout still remains fluid, the steel casing shall be withdrawn, as shown on the plans. Permanent casing is required for the micropiles.

Provide the equipment, materials and appropriate grout pressures to perform pressure grouting in all test piles.

If contractor plans to use pressure grouting, then casing shall not be withdrawn at the end of tremie grouting.

After tremie grouting has been completed and the grout still remains fluid, the steel casing shall be withdrawn while additional grout is injected under pressure as shown on the plans. Permanent casing is required for the micropiles.

Pressure is usually applied by attaching a pressure cap to the top of the drill casing or drilling head and injecting additional grout into the casing under controlled pressure. The minimum pump pressure at the top of the steel casing shall be calculated by the contractor and provided in his submittal. The pressure gauge for grout pressure monitoring shall be capable of measuring pressure of at least 200 psi or twice the actual grout pressure to be used by the contractor, whichever is greater.

Closely control the rate of drill casing removal so that the grout level remains at the top of the casing. Perform pressure grouting and simultaneous casing withdrawal until the required bond length is achieved. Maintain a positive flow of grout into the pile after withdrawal of each length of casing.

After the required bond length is achieved, the steel casing shall be then pushed back down a minimum of 5-feet for permanent seating (plunge length).

Maintain the grout level at the top of the micropile until the grout has set.

Calculate and record the initial volume of grout required to fill the hole. Record the grout pressures and volume pumped during pressure grouting.

Post-grout load test piles if selected by contractor to achieve the design capacity. Provide the equipment and materials to perform post-grouting in test piles. The same procedure, equipment, and materials used to perform post-grouting for the test piles shall be used for production piles.

Perform post-grouting at least 48 hours after the primary grout or after the grout for the micropile has hardened.

The work consists of pumping grout under pressure into a post-grout tube cast into the micropile. The grout will exit the post-grout tube one port at a time, with the port being isolated using a packer system.

Record the pressure at which the grout was pumped and the volume pumped through each port.

For test piles, multiple post-grout tubes to perform staged post-grouting procedures may be considered.

C.6 Construction Tolerances

Install the piles so that the center of each micropile does not vary from the plan location by more than 3/4 inches. Do not allow the micropile to vary from the vertical (plumb) or established batter by more than one percent, as measured above ground.

Cut off the top of the micropile within one inch of the elevation shown on the plans or as directed by the engineer.

If the pile is post-grouted, monitor the elevation of the pile top during post-grouting. Do not permit pile uplift to exceed 1/4-inch.

Centerline of reinforcing steel bar shall not be more than 5/8 inch from indicated location on the drawings.

C.7 Pile Acceptance Criteria

For all Test Piles, the micropile shall meet the load test acceptance criteria defined elsewhere in these special provisions.

All test micropiles shall be installed according to the dimensions and procedures shown in the approved submittals, installation criteria established during load tests, and as specified herein.

All micropiles shall meet construction tolerance criteria specified herein.

Centerline of piling shall not be more than three inches from the indicated plan location.

Top elevation of pile shall be plus one inch or minus two inches maximum from vertical elevation indicated.

Unacceptable micropiles are piles that are rejected by the engineer because of damage, failure to advance through obstructions, mis-location, misalignment, failure to meet load test acceptance criteria, failure to install the micropile using the approved equipment and procedures, or failure to install the micropile to the proper depth. Submit a written plan of action to the engineer for approval, showing how to correct the problem and prevent its reoccurrence. Repair or augment the micropile to the satisfaction of the engineer to make it acceptable. To mitigate and/or to remedy unaccepted micropiles, contractor may be required to provide additional piles or supplement micropiles to meet specified requirements at no cost to the department. Any associated work required due to unacceptable micropiles shall be at no additional cost to the department. The contractor will not be paid for a rejected micropile until such time that the pile is repaired or augmented to the satisfaction of the engineer.

C.8 Grout Testing

During construction, samples selected at random of grout mix shall be taken daily (two sets of samples per pile). Each set consists of at least three 2-inch grout cubes. The engineer will control sample selection. Contractor shall be responsible for such testing by retaining an independent testing company to perform the grout testing, the cost of same deemed to be included in the cost of micropiles.

The samples shall be molded, cured in a properly constructed curing box supplied by contractor, tested according to ASTM C 109, and shall reach a compressive strength after seven days equal to at least 60 percent of the design strength. If this requirement is not met, contractor shall modify the proportions of the mix subject to the approval of the engineer. If the required design strength is not attained after

28 days then contractor shall install replacement micropile(s) as required at no additional cost to the department. Any associated work required due to unacceptable micropiles shall be at no additional cost to the department.

Grout consistency as measured by grout density shall be determined by the contractor per ASTM C188 or API RP-13B-1 at a frequency of at least one test per micropile conducted just prior to start of pile grouting.

Compressive strength and grout density test results shall be submitted to the engineer within seven calendar days of grout sampling date.

Contractor shall modify the mix design if; a) an excessive amount of grout is lost from a micropile hole into voids in the in-place materials and b) if the rebar and centralizers get excessive resistance during installation.

Each batch of grout shall have the same volume and contain the same whole number of sacks of cement, unless a modification is approved by the engineer. Time of mixing shall be not less than three minutes.

If agitated continuously, the grout may be held in the mixer or agitator for a period not exceeding three hours at temperatures below 70 degrees Fahrenheit and for a period not exceeding two hours at higher temperatures.

If there is a lapse in pumping of the grout, the grout shall be re-circulated through the pump or through the mixer drum (or agitator) and pump.

Re-tempering of grout will not be permitted.

D Measurement

The department will measure the item 9.625-Inch Micropile Foundation 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.0090.4000	9.625-Inch Micropile Foundation	LF

Payment will be full compensation for drilling, coring through existing footings, disposing of obstructions, furnishing, and placing the reinforcing steel and casing, grouting, and micropile top attachments, and for providing all design, and grout testing.

The department will pay separately for the micropile verification load tests and proof load tests.

171. Cleaning Storm Sewer, Item SPV.0090.8000.

A Description

This special provision describes the removal and disposal of accumulated sand, gravel, and other debris in existing storm sewer structures and pipes.

B (Vacant)

C Construction

A vacuum/jetting truck must be used that is considered standard within the storm sewer cleaning industry. Lift and move storm sewer structure lid/grate, remove sand, gravel, and other debris trapped in the inlet structure, and reinstall lid/grate. Follow all applicable OSHA requirements pertaining to confined spaces. Inlets may be connected to existing storm sewer systems and as such the absence of hazardous atmospheric conditions in the system cannot be guaranteed. Mechanized vacuum/excavation equipment is required.

Perform cleaning from upstream to downstream storm sewer structure whenever possible. Vacuum any wastewater and debris from the inlet and pipe cleaning/jetting activities from within the storm sewer structure. All material must be removed from the downstream storm sewer structure. Use a plug device to prevent material from passing from one section to another.

Pipe Cleaning

Pipes shall be cleaned according to standard spec 520 and special provision Cleaning Culvert Pipes.

All solids removed from the sewers mush be completely removed from the storm sewer system and hauled off the project for disposal. Silts resulting from any flushing or jetting operation must be prevented from escaping into sewers or waterways.

D Measurement

The department will measure Cleaning Storm Sewer by the linear foot for each inlet and pipe, 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.0090.8000	Cleaning Storm Sewer	LF

Payment is full compensation for moving and reinstallation of the storm sewer structure lid/grate, removal and disposal off-site of the debris from the storm sewer structure and pipes, safety measures, and equipment including but not limited to a plug device and vacuum/jetting truck.

172. Removing Loose Concrete, Item SPV.0165.4000.

A Description

This special provision describes removing vertical, horizontal and overhead deteriorated concrete on structures as shown on the plans and applying a migrating corrosion inhibitor to areas of exposed steel reinforcing and concrete. This work shall be according to the pertinent parts of standard spec 517 and the details as shown in the plans.

B Materials

B.1 General

Furnish a migrating corrosion inhibitor for vertical, horizontal and overhead applications that is according to the pertinent requirements of standard spec 517, and with the following typical physical properties:

- Color appearance: clear yellow viscous liquid,
- pH: 9.0 - 9.7 (neat),
- Density: 8.6 – 8.8 lb./gal. (1.03 – 1.05 kg/liter),
- Viscosity (or flow) similar to syrup and higher than water.
- Odor: slight ammonia smell.
- Non-volatile content: 20 – 27%.

Migrating corrosion inhibitor provided in this section shall conform to the requirements for each type and class of concrete required, with the following typical physical properties and requirements:

a. Organic liquid,
b. Water-based,
c. Non-flammable,
d. Non-vapor barrier,
e. Non-toxic, oral LD 50 2000 g/kg maximum, or lower,
f. Protects both anodic and cathodic areas,
g. Does not contain calcium nitrate,
h. Non-polluting after flushing or dilution,
i. Non-harmful to plant life after flushing or dilution,
j. Approved for potable water applications by NSF Standard 61,

k. Certified for potable water applications by Underwriters laboratories

l. Not carcinogenic under occupational Safety and Health Agency, NTP, or IARC,

m. Seven year minimum usage experience as a migrating corrosion inhibitor,

n. Confirmed effective by ASTM G – 109

o. Proven effective as reported by the Strategic Highway Research Program funded by the United States of America, Department of Transportation (DOT), federal government and state DOT's.

C Construction

C.1 Preparation

Remove all deteriorated concrete. Sawcutting of edges is not needed. Concrete and adjacent surfaces should be dry, clean, and free of all dirt, oil, grease, efflorescence, sealers, coatings, curing compounds, membranes, rubber tire marks, and asphalt. Clean surface by stream cleaning, water blasting, sandblasting, or shot blasting. Use an air compressor with water and oil trap to ensure the cleaning method does not apply materials intended for removal. Use brush, broom, sweeper, or air compressor on surfaces as final cleaning before application. Use brush, broom, sweeper, or air compressor to chase cracks as final cleaning before application. Do not apply if the ambient temperature near the applied concrete surface is expected to be below freezing water temperature within 12 hours of application.

C2. Surface Application

Use the corrosion inhibitor for vertical, horizontal or overhead surface applications. Apply the solution by spray (conventional airless or hand pressure spray equipment), roller, squeegee, or paintbrush. Apply a rate of 150 square feet per gallon (3.7 square meters per liter). Minimal dry time is required and is usually minutes after treatment. Use of concrete substrate, such as for traffic, may resume when treatment is dry to touch.

D Measurement

The department will measure Removing Loose Concrete by the square 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.0165.4000	Removing Loose Concrete	SF

Payment is full compensation for concrete removal and disposal, cleaning preparation, furnishing, and applying the product.

173. Temporary Shoring Railroad, Item SPV.0165.4010.

A Description

This special provision describes furnishing and installing temporary shoring at locations alongside railroad tracks and supporting railroad loading as shown in the plan and according to the shoring design requirements.

B Materials

B.1 Shoring Design

Provide an effective shoring system capable of withstanding Coopers E-80 live load surcharge, and which complies with OSHA and Federal Railroad Administration (FRA) requirements. For reference, use "Guidelines For Temporary Shoring" published by Union Pacific Railroad (UPRR) and The Burlington Northern and Santa Fe Railway (BNSF), and refer to the UPRR General Shoring Zones diagram inserted at the end of this special provision. A copy of these guidelines may be obtained from the department at the Bureau of Railroads and Harbors, 4802 Sheboygan Avenue, Madison, Room 701 or at http://www.up.com/customers/ind-dev/operations/specs/. Where conflicts exist, the standard specifications, special provisions and plans shall supersede these guidelines.

Refer to standard spec 107.17.1(6) and (7) regarding the development and submittal of shop drawings, detailed plans, and computations for temporary construction near the UPRR's tracks. Include in the submitted drawings and plans the proposed method of installation and removal of the shoring not included in the contract plans. In all calculations, take into consideration railroad surcharge loading and design the shoring to meet Coopers E80 live loading.

C Construction

The UPRR will coordinate train operations with the contractor to the extent possible, consistent with its operational requirements. The number and duration of work windows free of train operations available per day will vary depending on operational requirements. At the end of each window, leave the construction area in a condition that will allow for safe and normal train operations. Do not leave shoring extended above the top of rail within 15'-0" from the centerline of the nearest track. Train operations and available windows for work and hours available for work within windows are subject to change. Contact the following at least three working days in advance of construction operations that require implementation of the temporary shoring:

David C. LaPlante
Senior Manager – Real Estate – Special and Public Projects
Union Pacific Railroad Company
1400 Douglas Street – Stop 1690
Omaha, NE 68179-1690
Telephone: (402) 544-8563
Email: dclaplante@up.com

Provide, install and maintain adequate protection for people within the UPRR's right-of-way. Cover, guard, and/or protect all excavations, holes, or trenches within the UPRR's right-of-way when they are not being worked on. When leaving work site areas at night and over weekends, secure the areas and leave them in a condition that will ensure that railroad employees and other personnel, who may be working or passing through the area, are protected around excavations. Install handrails that are parallel to the track and not less than 15'-0" from the centerline of the nearest track. Handrails, fences, or other barrier methods must meet OSHA and FRA requirements. Backfill all excavations as soon as possible.

Upon completion of the need for the temporary shoring, remove the shoring or cut-off the shoring 6'-0" below the top of the adjacent rail. Backfill the space that is excavated but not occupied by the new permanent construction according to standard spec 206.3.13.

D Measurement

The department will measure Temporary Shoring Railroad items in area by the square foot, acceptably completed at locations the plans show, measured as the area of exposed face in the plane of the shoring from the ground line in front of the shoring to a maximum of one foot above the retained grade. Shoring used for staged construction in multiple configurations without removal and reinstallation will be measured once based on the configuration with the largest area of exposed face.

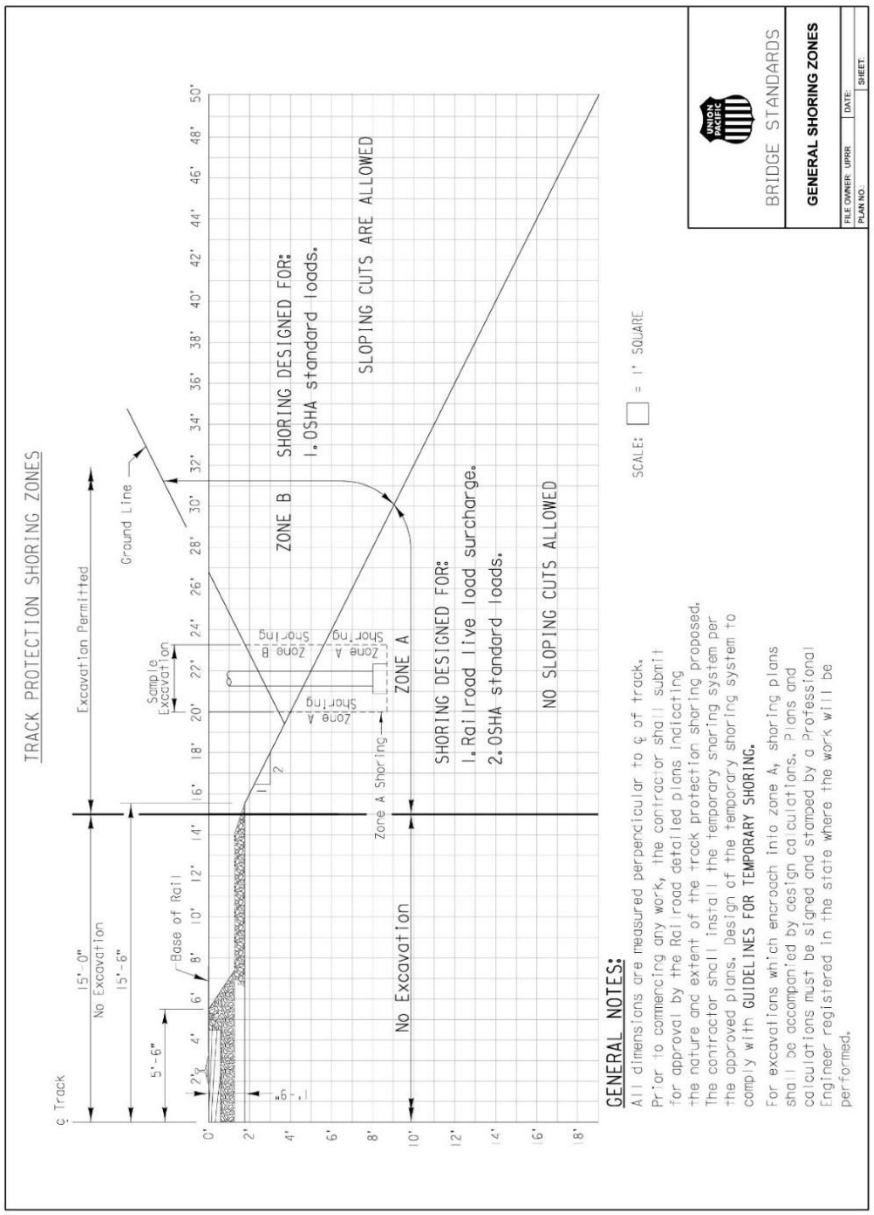
E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.4010	Temporary Shoring Railroad	SF

Payment is full compensation for providing a verified design of the shoring; providing shop drawings and detailed plans; furnishing and hauling materials to each location; installing the shoring; maintaining the shoring as needed; removing the shoring; and for backfilling upon completion of the need for the shoring.

Temporary shoring not required by the plans and installed for the convenience of the contractor's operations shall be considered incidental to work under this contract and will not be measured and paid for under this item.



174. Repair Galvanized Coating, Item SPV.0165.4501.

A Description

This special provision describes providing surface cleaning and painting the galvanized structures at locations specified in the plans, and as hereinafter provided.

B Materials

Supply specific product data sheets to the engineer prior to starting work. Materials used shall be according to ASTM A780 and approved by the engineer prior to being installed.

C Construction

Repair all areas that are chipped, corroded, damaged or as otherwise noted by plans or the engineer according to ASTM A780. Thoroughly clean the areas receiving coating before applying the new coating.

D Measurement

The department will measure Repair Galvanized Coating by the square foot acceptably completed with a minimum quantity of 1 square foot at each repair location.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.4500	Repair Galvanized Coating	SF

Payment is full compensation for cleaning; for protecting traffic and property; for furnishing all materials and miscellaneous items to complete the replacement; for handling, transporting, and erecting.

175. Resin Binder High Friction Surface Treatment, Item SPV.0180.0002.

A Description

This special provision describes providing a high friction surface treatment (HFST) composed of aggregate in a resin binder on HMA or concrete pavements.

B Materials

B.1 Resin Binder

Supply a two-part thermosetting resin binder which is compatible with the pavement type, bonds to the pavement surface, holds the aggregate firmly in place in a broad range of climates including below-freezing temperatures, and meets the requirements specified in Table 1. Supply a primer if recommended by the resin binder manufacturer.

Table 1. Resin Binder Properties

Property	Requirements	Test Method*
Viscosity	7 – 30 poises	ASTM D2556 1-pint specimen
Gel Time	10-minute minimum	AASHTO M 235M/M 235 Type III
Ultimate Tensile Strength	2,000 – 5,000 psi @ 7 days	AASHTO M 235M/M 235 Type III
Elongation at Break	30% - 70% @ 7 days	AASHTO M 235M/M 235 Type III
Compressive Strength	≥ 1000 psi @ 3 hrs & ≥ 5000 psi @ 7 days	ASTM C579
Water Absorption	≤ 1.0 % @ 24-hr	AASHTO M 235M/M 235 Type III
Shore D Hardness	60 – 80 @ 7 days	ASTM D2240** Type 1 precision, Type D method
Cure Rate	≤ 3 hours (Dry Through Time)	ASTM D1640 50-55 wet mil thickness**
Adhesive Strength	250 psi @ 24 hours or 100% substrate failure	ASTM D4541**

* Prepare samples per manufacturer's recommendation; cure two sets of specimens at 73 ± 2□ F and at 50 ± 2□ F; and test all specimens at 73 ± 2□ F

** Conduct testing on applicable pavement type

B.2 Aggregate

Furnish calcined bauxite aggregate that is fractured or angular in shape; resistant to polishing and crushing; clean and free of surface moisture; free from silt, clay, asphalt, or other organic materials; compatible with the resin binder; and meet the properties and gradation requirements in Tables 2 and 3. Check with resin binder manufacturer for any compatibility requirements or concerns. The calcined bauxite will be delivered to the construction site in clearly labeled packaging; which protects the aggregate from any contaminates on the jobsite and from exposure to rain or other moisture.

Table 2. Aggregate Properties

Property	Requirements	Test Method
Moisture Content	≤ 0.2%	AASHTO T 255
Fine Aggregate Angularity	≥ 45%	AASHTO T 304, Method A
LA Wear	≤ 10% loss @ 100 revolutions and ≤ 25% loss @ 500 revolutions	AASHTO T 96
Freeze-Thaw Soundness	≤ 9% loss @ 50, 16, or 25 cycles using Procedure A, B, or C, respectively	AASHTO T 103
Aluminum Oxide	≥87%	ASTM C 25

Table 3. Aggregate Gradation (AASHTO T27)

Sieve Size	% Passing by Weight
No. 4	100
No. 6	95-100
No. 16	0-5
No. 30	0-1

B.3 Approval of High Friction Surface Treatment

A minimum of 20 working days before applying HFST, submit product data sheets and specifications from the manufacturer, and a certified test report from an independent laboratory verifying that the resin binder and the calcined bauxite aggregate meet all the requirements specified in Tables 1, 2 and 3. Documents must be dated within three years of project letting date; must be representative of the material used on the project.

If resin binder has not been previously used in Wisconsin, also submit a list of at least five reference projects where the resin binder has been used for similar applications and in locations that have similar climatic conditions as Wisconsin. Supply a description of the projects along with contact information of the facility owner.

If the engineer requests, provide samples of the resin binder and aggregate for department testing before applying HFST.

C Construction

C.1 General

The contractor will provide documentation showing HFST application experience from at least three previous projects completed for WisDOT or other agencies.

Conduct a meeting with the resin binder manufacturer representatives before applying HFST to establish procedures for maintaining optimum working conditions and coordination of the work. Submit recommended application procedures, including quality control practices, to the engineer for approval. Ensure that a resin binder manufacturer representative is on site to provide technical assistance and quality assurance during surface preparation and for application of HFST.

Ensure that the resin binder components maintain their original properties during storage and handling. Store all aggregate in a dry environment and protect from contaminants on the job site.

C.2 Pavement Surface Preparation

C.2.1 Pavement Surface Repair

Remove visibly unsound or disintegrated areas of the pavement surface as the plans show or the engineer directs.

Check with resin binder manufacturer to ensure that products used for pavement repairs or patches are compatible with the resin HFST. Ensure that any new concrete or repairs are fully cured before placing the HFST. Allow a minimum 30-day curing time after placing new asphalt or concrete pavement before installing the HFST.

C.2.2 Surface Preparation

Cover and protect utilities, drainage structures, expansion joints on bridge decks, and other structures within or adjacent to the application location to prevent materials from adhering to or entering those structures.

Remove pavement markings that are within the treatment area. Cover existing pavement markings adjacent to the application if they are to remain in place.

Pretreat all joints and cracks, or any portion of cracks, that are greater than ¼ inch wide, with the mixed binder resin system specified herein. Once the binder resin in the pretreated area has galled, the installation may proceed.

Completely remove any grease, oil or other deleterious materials resting on the pavement surface with a mild detergent solution, rinsed with clean potable water, and dried using a hot compressed air lance. Ensure the pavement surface has no curing compound, loosely bonded mortar, pavement marking, or other foreign matter resting on the pavement surface.

Sufficiently clean HMA pavement surface using mechanical sweepers and high-pressure air wash with sufficient oil traps, just before applying HFST. Mechanically sweep all surfaces to remove dirt, loose aggregate, debris, and deleterious material. Vacuum sweep or air wash using a minimum of 180 cfm of clean and dry compressed air, all surfaces to remove all dust, debris, and deleterious material. Maintain air lance perpendicular to the surface and the tip of the air lance within 12 in. of surface.

Clean concrete pavement surface by shot blasting and vacuum sweeping. Shot blast all surfaces to remove all curing compound, loosely bonded mortar, surface carbonation, and deleterious material. After shot blasting, vacuum sweep or air wash, with a minimum of 180 cfm of clean and dry compressed air, all surfaces to remove all dust, debris, and deleterious material. Maintain air lance perpendicular to the surface and the tip of the air lance within 12 in. of the surface.

If the engineer requires additional verification of adequate surface preparation of the pavement, test the bond strength according to ASTM D4541. The surface is acceptable if the tensile bond strength is greater than or equal to 250 psi, or failure is in the substrate. Repeat cleaning, and testing, if needed, until passing test results are obtained or the surface is acceptable to the engineer.

Keep vehicles and unnecessary equipment off the cleaned surface; only allow HFST application equipment on the clean surface. Apply HFST as soon as possible after pavement surface preparations are completed.

C.3 Application of the HFST

Do not apply the HFST if any of the following exists:

- Pavement surface is wet, damp, or has received rainfall in the previous 24 hours.
- Pavement surface is not sufficiently clean.
- Ambient air or pavement surface temperature is below 50° F or below the manufacturer's recommendations.
- If the anticipated weather conditions would prevent adequate curing of the HFST.
- Rain is predicted before HFST completion or proper cure is achieved.
- Pavement preparation is inadequate or didn't pass pull-off test.

Close treatment areas to traffic until HFST is completely cured and pavement surface has been vacuum-swept.

Construct HFST to the full width of the existing pavement surface, or as the plans show. Extend the HFST application 2'-3' onto the shoulders if application site is on a curve where no rumble strip exists. If the rumble strip exists, apply HFST only on the main lane not on the shoulder.

Apply a primer to the pavement surface if recommended by the resin binder manufacturer, and according to their application recommendations. Abide by the established quality control practices and adhere to any additional manufacturer recommendations for HFST application.

Blend and mix the resin binder components at the manufacturer's specified ratio using equipment capable of providing the desired results.

Apply the resin binder uniformly over the pavement surface manually or with automated equipment at a uniform thickness of 50-65 mils (25-32 ft2/gal). Use enough resin to cover the pavement surface and sufficiently embed half the thickness of the aggregate; do not apply so much that it covers the aggregate and creates a slick surface. Adjust application rate, as needed, based on the pavement surface type, profile, and condition.

If using automated equipment, the binder resin system manufacturer shall approve the use of automated continuous application device with their material. Ensure that the equipment features positive displacement, volumetric metering, and can store, mixing, heating, monitoring, and distributing the binder components at the proper mix ratio. Adjust the pressure and the speed of the equipment to achieve the proper application thickness. Coverage rate is based upon expected variance in the surface profile of the pavement.

Do not contaminate the wet binder or allow the binder material to separate or cure, and impair bonding of the aggregate.

Immediately after applying the resin binder, distribute a sufficient quantity of dry calcined bauxite aggregate to completely cover the resin binder by hand broadcasting or by using a standard chip spreader or equivalent machine. Ensure aggregate is placed within five minutes of the resin binder placement, before it begins to cure. When broadcasting, sprinkle or drop the aggregate onto the resin binder vertically. Do not distribute aggregate in a way that will cause it to roll in the resin binder before coming to a rest; do not push the aggregate into position with a broom or any other hand tool. If using a chip spreader, the machine shall follow closely behind the crew or equipment applying the resin binder. Immediately cover any visible wet or bare spots, or areas with excessive binder, with additional calcined bauxite aggregate before the resin binder begins to set.

Allow the HFST to properly cure, adhering to manufacturer recommendations for minimum cure times at applicable temperatures.

After the HFST is fully cured, remove excess loose surface aggregate by sweeping, blowing, or vacuuming. Do not tear or otherwise damage the surface. Excess calcined bauxite aggregate that is recovered by a vacuum sweeper can be reused if clean, uncontaminated and dry. Remove and replace damaged areas or areas with excess or insufficient aggregate coverage. Uncover pavement markings and repair damages that occur by covering and uncovering markings. Clean expansion joints, utilities, and drainage structures of all debris before opening to traffic.

Additionally, within 3 to 7 days after opening to traffic, the contractor shall vacuum sweep the pavement surface to remove loosened aggregate from the high friction surface area, the shoulders, and any other areas within and immediately adjacent to the HFST site.

D Measurement

The department will measure Resin Binder High Friction Surface Treatment 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
SPV.0180.0002	Resin Binder High Friction Surface Treatment	SY

Payment is full compensation for testing materials; for surface preparation; for providing the HFST; for cleanup including uncovering and restoration of pavement markings; and for vacuum sweeping and disposing of excess material after the completion and again 3 to 7 days after completion.

The department will pay for pavement repairs, and traffic control separately under other contract bid items or, absent the appropriate bid items, as extra work.

176. Excavation of Phragmites Contaminated Soil, Item SPV.0180.0003.

A Description

This special provision describes excavating soils designated in the plans as containing Phragmites as directed by the engineer, hauling and disposing excavated material to a DNR licensed landfill site, backfilling the excavated area, and decontamination of equipment.

B Materials

Furnish backfill material in accordance with standard spec 207.2.

C Construction

Complete excavation of phragmites in a fully dewatered and isolated work area.

Excavate soils as delineated in the plan to the bottom of the concrete channel to remove all plant root matter or as directed by the engineer. Allow a minimum of 10 days between the Herbicide Application and excavation of phragmites contaminated soil. Haul excavated material to a licensed landfill site. Decontaminate equipment per Environmental Protection, Aquatic Exotic Species Control article of these special provisions.

D Measurement

The department will measure Excavation of Phragmites Contaminated Soil by the square yard, acceptably completed. The quantity measured for payment shall equal the actual number of square yards of excavated area as measured by the engineer

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.0003	Excavation of Phragmites Contaminated Soil	SY

Payment is full compensation for dewatering, isolating work area, excavating, loading, hauling and wasting material, providing and placing backfill material, and decontamination of equipment. Payment for Herbicide Application, Seeding and Mulch will be paid under respective bid items.

177. Herbicide Application, Item SPV.0180.0004.

A Description

This special provision describes providing the application of a post-emergence herbicide.

B Materials

Furnish post-emergence herbicide that is in accordance to the pertinent requirements of standard spec 632.2.12.

C Construction

Apply in accordance to manufacturer’s instructions and applicable laws and regulations. Allow a minimum of 10 days between the application and excavation of phragmites contaminated soil. Apply herbicide when weeds are actively growing, avoiding early spring, late fall and periods of drought.

D Measurement

The department will measure Herbicide Application 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
SPV.0180.0004	Herbicide Application	SY

Payment is full compensation for furnishing and applying herbicide.

178. Polyester Polymer Concrete Overlay, Item SPV.0180.4000.

A Description

This special provision describes furnishing and applying a polyester polymer concrete (PPC) overlay with a high molecular weight methacrylate (HMWM) resin prime coat, to the limits shown on the plans. Minimum thickness of finished overlay thickness to be as shown on plans.

Provisions in standard spec 509 for concrete masonry overlays apply unless otherwise specified herein.

B Materials

The PPC system shall consist of a polyester resin binder and aggregate, and a compatible primer.

B.1 Primer

The primer shall be a HMWM resin that is low viscosity, wax free, low odor, and shall meet the following requirements:

Property	Requirements	Test Method
Viscosity [A B]	≤ 25 cps	ASTM D 2196 – Brookfield RVT
Specific Gravity [A B]	≥0.90	ASTM D 1475
Flash Point [B]	≥ 180°F	ASTM D 3278
Tack-free Time [A]	≤ 400 minutes	California Test Method 551
Vapor Pressure [A B]	≤ 0.04-in Hg	ASTM D 323
Volatile Content [B]	< 30%	ASTM D 2369
PCC Saturated Surface Dry Bond Strength [C]	≥ 500 psi (24hrs)	California Test Method 551

[A] Value based on specimens or samples cured or aged and tested at 77°F

[B] Test performed prior to adding the initiator

[C] Value based on specimens or samples stored at 70±1ºF

The initiator for the methacrylate shall consist of a metal drier and peroxide. These materials must be stored separately and in a manner which will not allow the materials to contact each other if spilled or if the packaging leaks.

B.2 Resin

The resin shall be an unsaturated isophthalic polyester-styrene co-polymer with the following properties:

Property	Requirements	Test Method
Viscosity [A B]	75-200 cps	ASTM D 2196 – Brookfield RVT
Specific Gravity [A B]	1.05-1.10	ASTM D 1475
Absorption	≤ 1 percent (24 hr)	ASTM D 570
Tensile Elongation	35-80 percent (7 days)	ASTM D 638
Tensile Strength	≥ 2,500 psi (7 days)	ASTM D 638
Styrene Content [B]	40-50 percent by weight	ASTM D2369
Silane Coupler	> 1 percent by weight of resin	
PCC Saturated Surface Dry Bond Strength [C]	≥ 500 psi (24 hrs)	California Test Method 551
Permeability to Chloride ion	≤ 100 coulombs (28 days)	AASHTO T 277

[A] Values are based on specimens or samples cured or aged and tested at 77°F

[B] Test performed prior to adding initiator

[C] Values are based on specimens or samples cured or aged and tested at 70ºF

The silane coupler shall be an organsilane ester, gammamethacryloxypropyltrimethoxysilane. The promoter/hardener shall be compatible with methyl ethyl ketone peroxide and cumene hydroperoxide initiators.

B.3 Aggregates

For mixing with the polyester polymer resin, furnish natural or synthetic aggregates that have a proven record of performance in applications of this type. Furnish aggregates that are non-polishing; clean; free of surface moisture; fractured or angular in shape; and free from silt, clay, asphalt, or other organic materials. The fine aggregate shall be natural sand. The aggregate gradation shall meet either of the following gradation requirements:

Sieve Size	% Passing by Weight	% Passing by Weight
1/2-in	100	100
3/8-in	100	83-100
No. 4	62-85	65-82
No. 8	45-67	45-64
No. 16	29-50	27-48
No. 30	16-36	12-30
No. 50	5-20	6-17
No. 100	0-7	0-7
No. 200	0-3	0-3

The coarse aggregate shall have a Moh's hardness of 7.0 or greater. The percent wear shall not exceed 50%, and the weighted soundness loss shall not exceed 12% per ASTM C131and C88, respectively.

Aggregates shall have an absorption not to exceed 1% and the moisture content shall not exceed one half of the aggregate absorption. Aggregates retained on the No. 8 sieve shall have a maximum of 45% crushed particles when tested according to AASHTO Test Method T335.

The finishing sand aggregate shall be commercial quality dry blast sand with an average absorption of no more than 1%. 95% of the sand shall pass the No. 8 sieve and at least 95% shall be retained on the No. 20 sieve.

B.4 Required Properties of Overlay System

The required properties of the overlay system are listed in the table below:

Property	Requirements [A]	Test Method
Minimum Compressive Strength	2,000 psi (8 hrs) 5,000 psi (24 hrs)	ASTM C 579 Method B, Modified [B]
Set Time	30-120 minutes	ASTM C 266
Minimum Pull-off Strength	500 psi (24 hrs)	ASTM C1583

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

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

B.5 Approval of Bridge Deck Polymer Overlay System

A minimum of 15 working days prior to the pre-construction meeting, submit to the engineer for acceptance the product data sheets and specifications from the manufacturer, product history/reference projects report, an overlay placement plan, and a certified materials report from an independent testing laboratory. The engineer may request samples of the primer, resin, and/or aggregate prior to application for the purpose of acceptance testing by the department.

The product history/reference projects report shall consist of a minimum of 5 bridge/roadway locations where the proposed overlay system has been applied in Wisconsin or in locations with similar climate, and on bridges of similar size and scope to the contract project. Include contact names for the facility owner,

current phone number and e-mail address, and a brief project description including structure ID's and overlay quantities placed. These projects must have been open to traffic for at least 1 year.

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

C Construction

C.1 General

C.1.1 Pre-Installation Conference

Conduct a pre-installation conference with the manufacturer's representative prior to construction to establish procedures for maintaining optimum working conditions and coordination of work. Furnish the engineer with a copy of the recommended procedures, the manufacturer's instructions, contractor's personnel experience record, and the PPC mix design including the recommended initiator percentages for the expected application temperature.

C.1.2 Contractor Personnel Requirements

A minimum of 15 days prior to the pre-construction meeting, submit to the engineer for approval the contractor's personnel experience and qualifications successfully placing concrete bridge deck overlays or PPC overlays using similar equipment as specified within this special provision within the last 5 years. Placement of thin polymer overlays does not qualify. Include contact names for the facility owner, current phone number and e-mail address, and a brief project description including structure ID's and overlay quantities placed. The engineer shall contact the Bureau of Structures Chief Structures Design Engineer to verify experience and qualifications.

Experienced personnel are required to be actively present during the overlay application according to the following:

Experience and qualifications of manufacturer's representative: Must be employee of the current company for at least one year in good standing with experience performing a minimum of 10 PPC overlays on bridges of similar size and scope to the contract project in the last 5 years. Scope shall be evaluated by placement temperature, existing deck condition, placement thickness, number of stages, average daily traffic, and any other factors unique to the application. Acceptable project experience must be in current service showing no signs of installation deficiency, major distress, excessive wear, or delamination. A 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 includes, but is not limited to, pre-installation conference, deck preparation, trial overlay, PPC application, and PPC cure.

Experience and qualifications of crew foreman or lead finisher: Must be employee of the current company for at least one year in good standing with experience performing a minimum of 2 PPC overlays to highway bridge decks in the last 5 years. Multiple stages of PPC overlay on one bridge deck will be accepted as one single application.

Experience and qualifications of crew/laborers: All crew members involved with the placement or finishing of the PPC overlay must be an employee of the current company for at least one year in good standing In addition, laborers finishing the PPC material in place must have at least 2 years of experience finishing concrete. All crew/laborers must participate and fulfill the same role for both the trial and final PPC overlays.

The engineer will accept or reject the contractor's personnel experience record. If the contractor does not provide personnel with the required experience and qualifications, the contractor will not be authorized to proceed with any work until replacement personnel are reviewed and accepted by the engineer. The engineer may suspend work if the contractor substitutes unqualified personnel for accepted personnel during construction.

C.1.3 Material Storage and Safety Plan

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

Safety Plan: Prior to arrival of the product on the job site, provide a product shipping, storage, and use safety plan to detail how the product will be delivered and stored on site in a manner that will not allow the constituent components to come in contact with each other in the event of a spill or container leakage.

This plan must also include a description of the safety training workers applying the product have received regarding the product's use, and list any and all safety precautions which must be taken during application of the product.

C.1.4 Trial Overlay

Place trial overlay(s) on a properly prepared concrete surface within the project limits to determine the initial set time and to demonstrate the effectiveness of the surface preparation, mixing, placing, and finishing equipment and techniques. Each trial overlay shall be the width and thickness of the proposed placement on the bridge and at least 25 feet long. The trial overlay(s) shall be tined in the same manner as the deck overlay. Construct trial overlay(s) in similar weather conditions as those expected during the construction of the deck overlay and at a similar time of day unless directed otherwise by the engineer. Use the same equipment and laborers/operators, including deck preparation equipment, as that which will be used for the deck overlay.

The number of trial applications required shall be as many as necessary to demonstrate the contractor's ability to construct an acceptable overlay and competency to perform the work to the satisfaction of the engineer. If, after two trial applications, the engineer is not satisfied with the trial placements, hold another pre-installation conference, as described in Section C1.1. Do not proceed with deck overlay work prior to receiving the engineer's approval of the trial overlay(s). Conduct all trial overlays in the presence of the engineer. If the trial overlay is placed on the deck surface and found acceptable by the engineer, the contractor may leave trial overlay in place. If the trial overlay is placed on the deck surface and found not acceptable, the material must be removed and replaced at no additional cost.

C.2 Deck Preparation

C.2.1 Deck Repair

When specified on the plans, remove the entire surface of the bridge deck receiving the new overlay. 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 Bureau of Structures Design Section. If PPC is used to fill deck repair areas, prime the patch area as described in Section C.3.1 of this specification. 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 PPC or 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 a profile meeting CSP 5 according to the International Concrete Repair Institute Technical Guideline No. 03732. Test the tensile bond strength according to ASTM C1583. The surface preparation will be considered acceptable if the tensile bond strength is greater than or equal to 250 psi or if there is a failure into the substrate where more than 50% of the core area has failed deeper than 1/4-in. Continue adjustment of the shotblasting machine and necessary testing until the surface is acceptable to the engineer or a passing test result is obtained. Test the tensile bond strength of the prepared concrete substrate at a minimum of 2 locations in the first 500 SF and a minimum of 1 location every additional 5000 SF, as determined by the engineer. Perform all tests in the presence of the engineer.

The engineer may consider alternate surface preparation methods per the overlay system manufacturer's recommendations. The engineer must approve the final surface profile and deck cleanliness prior to the contractor placing the PPC overlay.

Prepare the entire deck, or portion of the deck to be overlaid in one placement when staged construction is being employed, using the final accepted adjustments to the shotblasting machine as determined above. Blasting shall remove all dirt, oil, asphalt, rubber, curing compound, paint, carbonation, grease, slurry, membranes, striping, rust, weak surface mortar, laitance, and other foreign or potentially

detrimental materials. Thoroughly blast clean with hand-held equipment any areas inaccessible by the shotblasting equipment. Do not perform surface preparation more than 24 hours prior to the application of the primer. Blasted surface shall not be exposed to vehicular or pedestrian traffic other than that required for overlay placement and approved by the engineer.

Prepare the vertical or nearly vertical concrete surfaces adjacent to the deck a minimum of 2-in above the overlay per SSPC-SP 13 by sand blasting, using wire wheels, or other approved method.

Just prior to overlay placement, clean all dust, debris, and concrete fines from the deck surface including vertical faces of curbs and barrier walls up to a height of 2-in above the overlay with compressed air. The air stream must be free of oil and moisture. Any grease, oil, or other foreign matter that rests on or has absorbed into the concrete shall be removed completely.

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

C.2.3 Transitional Area

If the plans show, create a transitional area approaching the transverse expansion joints and end of the deck using a diamond grinder or blasting method. Remove concrete to the depth of the overlay thickness adjacent to the joint or end of deck and provide a transition as the plans show.

If the plans show, create a transitional area on the approach pavement. Remove concrete to the depth of the overlay thickness and provide a transition as the plans show. Prepare and place overlay beyond the end of the deck the same width as the deck.

C.3 Application of the Overlay System

Apply the overlay system conforming to the manufacturer's instructions.

Do not apply the overlay system if any of the following is true:

- Ambient air temperature is below or expected to drop below 50°F, or the manufacturer's recommended temperature, within 8 hours
- Deck surface temperature is below 50°F or above 100°F
- Moisture content in the deck exceeds 4.5% when measured by an electronic moisture meter or shows visible moisture after 2 hours when measured according to ASTM D4263.
- Materials component temperatures are below 50°F or above 100°F
- Concrete age is less than 28 days, unless approved by the engineer
- Gel time is 15 minutes or less at predicted high air temperature for the day
- The relative humidity is greater than 85%

C.3.1 Application of the Primer

Apply primer to the deck surface within 5 minutes of mixing at approximately 1 gallon per 100 square feet or the rate specified by the manufacturer. Use a squeegee, roller, broom, low pressure sprayer, etc. to distribute the material uniformly and to completely cover the area receiving the overlay. Remove excess buildup and re-prime any areas that appear dry from absorbing material. Wait a minimum of 15 minutes or as recommended by the manufacturer before placement of the overlay. If the primed surface becomes contaminated, clean and re-prime it.

C.3.2 Application of the Overlay

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. Mix PPC using a plant/mixer calibrated according to the manufacturer's recommendations. Calibrate the plant/mixer in the presence of the engineer.

The polyester concrete shall be placed within 15-120 minutes after the primer has been applied, or per the manufacturer's recommendation.

The polyester concrete shall contain 11-13% polyester resin by weight of dry aggregate; the exact percentage will be determined by the engineer during placement to enable proper finishing and texturing of the overlay surface.

The amount of initiator used in polyester concrete shall be sufficient to produce an initial set time between 30-90 minutes, when the in-place PPC cannot be deformed by pressing with a finger.

If initial set does not occur within 30-90 minutes, the material must be removed and replaced at no additional cost.

Place the PPC before gelling or within 15 minutes of adding the initiator, whichever comes first, or within a more restrictive range if recommended by the manufacturer. Discard any PPC not placed within this time limit at no additional cost.

Consolidate and finish to the required grade and cross-section per standard spec 509. Taper at drains and expansion joints as specified by the manufacturer or as indicated on the plans. Terminating edges of the overlay may require application and finishing by hand trowel. Finishing and texturing equipment shall be fitted with vibrators and tines or other means of consolidating and texturing the polyester concrete to a compaction no less than 97% or as recommended by the manufacturer. A vibratory screed may be used for placement lengths less than 300 ft. A roller type screed is not allowed. If a vibratory screed is used, the surface shall be tested according to standard spec 415.3.10.

If the overlay is placed with a paving machine which incorporates tines, apply the finishing sand immediately after texturing. Otherwise, apply the finishing sand immediately before texturing or as directed by the manufacturer. The finishing sand must be applied before gelling occurs.

The finish sand shall be applied by either mechanical or hand dispersion immediately after strike-off, before gelling occurs. Apply at approximately 15 to 20 lbs per 100 square foot or until saturation as determined by the engineer.

Texture the overlay surface by transverse grooving as soon as the condition of the PPC will permit. Use a steel tined tool or a finned float with a single row of fins. Grooves shall be approximately 3/16-in wide at 3/4-in to 1-in on center with a depth of approximately 1/8-in. Longitudinal grooving is acceptable when steel tines are mounted to the paving machine. Do not tine within 1 foot of gutters. Tining may be performed manually provided that the finish obtained is satisfactory to the engineer.

The completed PPC overlay surface shall be free of any smooth areas and shall be neat in appearance. Any surface defects shall be repaired by the contractor to the satisfaction of the engineer at no additional cost.

Allow material to fully cure to a firm, hard surface before allowing traffic on the overlay. Cure times will vary depending on product and ambient temperature; refer to manufacturer’s recommendation. Before opening to traffic, a properly calibrated Schmidt hammer must register a value not less than 25. The overlay shall be protected from moisture while it cures.

Prior to opening to traffic, clean expansion joints and joint seals of all debris and polymer. All working deck joints shall be extended through the overlay and sealed according to plan details. If required by the engineer, a minimum of 3 days following opening to traffic, remove loosened aggregates from the deck, expansion joints, and approach pavement.

If the overlay is not completed within the work period (including if staged construction is used), the polyester polymer overlay edges shall be properly terminated as specified by the manufacturer. Prime the edges of butt joints of the previously placed overlay before placing the next portion of the overlay.

C.3.3 Acceptance Testing

C.3.3.1 Bond Strength

Between 24 and 48 hours after overlay placement, conduct two tensile bond tests per pour, including in the trial overlay area if placed on the bridge deck, as specified in either ASTM C1583. Drill cores through the overlay and into the existing concrete a minimum of 1/4-in but no more than 1/2-in. A passing test will have a tensile strength greater than 250 psi, or a failure into the substrate where more than 50% of the core area has failed deeper than 1/4-in. Immediately patch test core holes by blowing out with oil- and moisture-free compressed air and filling with PPC per manufacturer’s instructions.

C.3.3.2 Smoothness Quality

The finished surface, when tested with a 10-foot straightedge, shall not vary by more than 1/4-in. Any surface that fails to conform to the above tolerance shall be corrected with a diamond grinder.

C.4 Repair of Polyester Polymer Concrete Overlay

Repair all areas determined by the engineer to be unbonded, uncured, segregated, or damaged at no cost to the department. Submit repair procedures from the manufacturer to the engineer for approval.

Absent manufacturer's repair procedures and with the approval of the engineer, complete repairs as follows: 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 surface prior to placement of overlay material; and place the PPC overlay according to C.3.

D Measurement

The department will measure Polyester Polymer Concrete Overlay bid item in area 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
SPV.0180.4000	Polyester Polymer Concrete Overlay	SY

Payment for Polyester Polymer Concrete Overlay is full compensation for preparing the surface; for tensile bond testing; for creating the transitional area, for acceptably completing trial overlay(s); providing, hauling, placing, finishing, curing, and protecting the overlay; for cleanup; for sweeping/vacuuming and disposing of excess and waste materials; and for the presences of the manufacturer's representative on the site.

When specified on the plans, the department will pay separately for Cleaning Decks 509.0500.

179. Abutment Seat Cleaning and Sealing, Item SPV.0180.4001.

A Description

This special provision describes cleaning the top surfaces of concrete abutments and sealing them as the plans show and as the engineer directs.

B Materials

For bridge seat protection/sealing, coat the tops of abutments with a type of epoxy resin the manufacturer recommends for sealing exterior concrete surfaces, subject to the engineer's approval.

C.1 Blast Cleaning Operation

Blast clean the top surface of the abutment according to SSPC SP-13 and ASTM D4259 for an abrasive blast cleaning to a surface roughness and finish as the engineer directs. Before abrasive blast cleaning operations are to begin, prepare a representative trial area on the abutment surface, and have the method of blast cleaning approved by the engineer. Provide means of protecting bearings and girders such that their coatings/paint are not removed or damaged during blasting operations.

C.2 Water Cleaning Operation

After abrasive blast cleaning operations are completed, clean the prepared pier cap surface with water according to ASTM D4258. Remove with this water cleaning all dust and loose material from the top surface of the abutments to be coated with epoxy for bridge seat protection. Provide an adequate drying time of at least 24 hours before coating with epoxy. Remove all loose concrete, dirt, dust, or blast material that remains in the area around the abutment, as the engineer directs.

C.3 Bridge Seat Protection

After cleaning, apply bridge seat protection epoxy per standard spec 502.3.12.

D Measurement

The department will measure Abutment Seat Cleaning and Sealing 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
SPV.0180.4001	Abutment Seat Cleaning and Sealing	SY

Payment is full compensation for abrasive blast cleaning; for water cleaning; for all additional cleanup of the concrete surfaces and surrounding abutment areas; and for furnishing and applying bridge seat protection.

180. Grouting Existing Riprap, Item SPV.0180.4010.

A Description

This special provision describes grouting existing riprap to arrest shifting.

B Materials

Furnish riprap grout per standard spec 606.2.2.

C Construction

C.1 General

Adjust placement of existing riprap as directed by the engineer. Prepare riprap by removing vegetation, debris, dirt, and other deleterious material from surface of existing riprap. Clean voids between riprap by air blasting to remove dirt, dust and loose particles. Use power air blasting tools capable of producing high-volume, high velocity air streams (500 cubic feet per minute at 200 mph minimum delivery), or other such tool as approved by the engineer for cleaning.

C.2 Grouting Riprap

Place grout at existing riprap per standard spec 606.3.5. Estimated existing riprap depth is 18”.

D Measurement

The department will measure Grouting Existing Riprap per 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
SPV.0180.4010	Grouting Existing Riprap	SY

Payment is full compensation for adjusting riprap placement, preparing the existing riprap for grout placement, cleaning voids between riprap, providing and placing grout, and curing.

181. HMA Longitudinal Joint Repair, Item SPV.0195.0001.

A Description

This special provision describes providing longitudinal joint repairs in HMA pavements. Conform to standard spec 204, 315, 455, and 460, and as follows.

B Materials

Furnish asphaltic mixture as specified for type 3 HT 58-28 H under standard spec 460.2.

Provide tack coat conforming to standard spec 455.2.5.

C Construction

C.1 General

Remove an area two feet wide and at least to the full depth of asphaltic pavement; the engineer will determine the repair length. Remove damaged concrete pavement discovered below the asphalt during this removal and replace with asphalt mixture.

Clean the existing exposed concrete pavement surface before placing tack coat.

Apply asphaltic materials the same day the joint is removed to prevent the entrance of water. Do not apply if weather or surface conditions are unfavorable or before impending rains.

Conform to standard spec 315.3.1 for placement of the HMA pavement.

Dispose of removed pavement and other waste materials outside of the project limits unless the engineer allows otherwise.

C.2 Maintenance

Maintain repaired joints during the contract. Remove and replace additional tack coat and HMA pavement if the engineer directs.

D Measurement

The department will measure HMA Longitudinal Joint Repair by the ton, 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.0195.0001	HMA Longitudinal Joint Repair	TON

Payment is full compensation for providing the joint repair including removing the existing asphaltic surface and damaged concrete; for tack coat and asphaltic pavement mixture; and for maintaining the repair during the contract.

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182. Excavation, Hauling, and Disposal of Solid Waste Soil, Item SPV.0195.4000.

The department completed a review of environmental documents and databases for soil contamination at locations within this project where excavation is required. The review indicated that solid waste (contaminated soil) is likely to be encountered during excavation near the Union Pacific Railroad at the following location:

1. IH 41 Station 208+50 to 213+50, from project limits left to project limits right, from approximately 0 to 4+ feet below existing grade.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the area of the railroad crossing described above.

The environmental consultant for this project is:

Consultant:	Ramboll
Address:	234 W. Florida Street, Fifth Floor, Milwaukee, WI 53204
Contact:	Mark Walter, PE
Phone:	(414) 837-3563
Fax:	(414) 837-3608
E-mail:	Mark.Walter@ramboll.com

Information regarding the department's hazardous materials assessment and the potential for handling and disposal of contaminated soil is available by contacting:

Name:	Mr. Andrew Malsom
Address:	141 NW Barstow St., PO Box 798, Waukesha, WI 53187-0798
Phone:	(262) 548-6705
Fax:	(262) 548-6891
E-mail:	Andrew.Malsom@dot.wi.gov

Control construction operations at the location described above to ensure that they do not extend beyond the excavation limits indicated in the plans.

Soil samples collected during construction from the area identified above will be submitted to a laboratory for analytical testing. The results of the laboratory testing will be used to determine if the soil requires landfill disposal or can be considered common excavation. The soil sampling, laboratory testing, and approval for landfill disposal (if necessary) is estimated to take up to ten (10) calendar days to complete.

Soil samples shall be collected from test pits excavated by the contractor at the location described above or from a temporary stockpile if the contractor excavates soil from the location described prior to testing. Test pits and temporary stockpiling of soil is incidental to the contract. The stockpile shall be located within the right-of-way and placed on plastic and covered with plastic according to NR 718.05 of the Wisconsin Administrative Code.

If analytical testing indicates the stockpiled soil requires landfill disposal, the closest landfills to the project would be the following.

Waste Management Orchard Ridge Security Landfill
W124 N9355 Boundary Road
Menomonee Falls, WI 53051
(262) 509-5629

Waste Management Metro Landfill
10712 South 124th Street
Franklin, WI 53132
(414) 529-6180

GFL Environmental Emerald Park Landfill
W124 S10629 124th Street
Muskego, WI 53150
(414) 529-1360

Perform this work according to standard spec 205 and with pertinent parts of Chapter NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil,

If contaminated soil is encountered at this site or elsewhere on the project during excavation, terminate excavation in the area and notify the engineer.

A.1 Excavation Management Plan

The excavation management plan for this project has been designed to minimize the offsite landfilling of contaminated material. 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 this site contact:

Name:	Mr. Andrew Malsom
Address:	141 NW Barstow St., PO Box 798, Waukesha, WI 53187-0798
Phone:	(262) 548-6705
Fax:	262-548-6891
E-mail:	Andrew.Malsom@dot.wi.gov

A.2 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	Ramboll
Address:	234 W. Florida Street, Fifth Floor, Milwaukee, WI 53204
Contact:	Mr. Mark Walter, PE
Phone:	414-837-3563
Fax:	(414) 837-3608
E-mail:	Mark.Walter@ramboll.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated as expressed on the project plans and described in the special provisions;
2. Coordinating lab testing for landfill acceptance;
3. Identifying contaminated soils to be hauled to the landfill;
4. Obtaining landfill permitting and documentation of proper landfill disposal;
5. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein.

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 area of possible contaminated soil to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in the area with possible contaminated soil.

Identify the landfill that will be used for disposal of contaminated soil, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the possible contaminated soil area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.3 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil possibly contaminated with Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and/or Metals. 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 prior to the start of work.

B (Vacant)

C Construction

Add the following to standard spec 205.3:

Control operations in the possible contaminated soil area to minimize the quantity of contaminated soil excavated.

Excavate the possible contaminated soil in the area shown in the plan. Stockpile the material within the project footprint of DOT right-of-way, pending lab results and landfill acceptance (if necessary). Construct and maintain a temporary stockpile of the material according to NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. In lieu of temporary stockpiling the possible contaminated soil, excavate test pits as directed by the environmental consultant prior to excavation in the area of possible contaminated soil.

The environmental consultant will coordinate analytical testing of possible contaminated soil for landfill acceptance. Five business days should be allowed for the laboratory to conduct this testing and issue results. In the event the laboratory analytical test results do not indicate contamination is present, the stockpiled material may be considered common excavation and can be handled according to the erosion control implementation plan (ECIP).

Once landfill acceptance permitting is complete (if necessary), directly load and haul soils to the landfill as directed by the environmental consultant. Use loading and hauling practices that are appropriate to prevent any spills or releases of contaminated soil or residues. Prior to transport, sufficiently dewater soils designated for off-site landfilling so as not to contain free liquids. Verify that the vehicles used to transport contaminated materials are licensed for such activity according to applicable state and federal regulations.

When material is encountered outside the above-identified limits of possible contaminated soil that appears to have been impacted with petroleum or chemical products or when other obvious potentially contaminated materials are encountered or material exhibits characteristics of industrial-type wastes, such as fly ash, foundry sand, and cinders, or when underground storage tanks are encountered, suspend excavation in that area and notify the engineer and the environmental consultant.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Contaminated Soil in tons of contaminated soil, accepted by the landfill as documented by weight tickets generated by the landfill.

E Payment

Temporary stockpiling of soil is incidental to the contract.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.4000	Excavation, Hauling, and Disposal of Solid Waste Soil	TON

Payment is full compensation for excavating, stockpiling (including contractor-provided plastic sheeting to cover as well as place the material on), loading, and hauling the solid waste soil to a landfill; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils prior to transport, if necessary.

ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)
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 includes: 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).

TrANS is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor's needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of $5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.

   Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.

   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __18__ *(number)* TrANS Graduate(s) be utilized 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 TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

   Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __7__ *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS 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 Disadvantaged Business Enterprise Office at the phone numbers listed above.

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 TrANS 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 TrANS 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 TrANS 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 TrANS 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).

<u>NOTE</u>: *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-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 TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS 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.

TrANS 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. TRANS 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 insure 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 under-representation 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-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

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 Expediters, 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). 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 **County**	**1** **Dane County**	**6** **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**

- 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.

- 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)**

- Plans and Specifications can be found: **WisDOT HCCI Website: List webpage where plans are located**

- 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.

- 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. *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)*		
Selected Work Items Documentation	All work items are broken out into economically feasible units to facilitate DBE participation. *Such as: Selected work items are specific to each proposal and clearly identified in all solicitation(s)*		
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. *Such as: Project information is clearly identified in all solicitation(s)*		
Documentation of Negotiation with Interested DBEs	Provide sufficient evidence demonstrating that good faith negotiations took place during the bid letting. *Such as: Documented attempts with DBEs or on behalf of DBEs to increase DBE participation*		
Documentation of Sound Reason for Rejecting DBEs	Provide sufficient evidence demonstrating that DBEs are rejected for sound reasons. *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.*		
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. *Such as: Variety of activities that translate into meaningful DBE participation*		
Documentation of other GFE activities	*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*		
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) Conducing 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

Official Form DT1506 can be found here: https://wisconsindot.gov/Documents/formdocs/dt1506.pdf

COMMITMENT TO SUBCONTRACT TO DBE

Clear

Wisconsin Department of Transportation

DT1506 12/2021 s.84.06(2) Wis. Stats. ☐ Non-Traditional Project

Project ID: _____

Proposal # _____

Prime Contractor: _____

County: _____

Letting Date: _____

Total $ Value of Prime Contract: $ _____

DBE Contract Goal: _____ %

DBE Goal Achieved: 0.00 %

This contract requires that a specified percentage of the work be subcontracted to a disadvantaged business enterprise and that this information be submitted as described in ASP-3. The submittal of this form with the bid proposal constitutes your DBE commitment. Include Attachment A for DBEs included on commitment.

This form must be completed and returned for this proposal. See page 2 for instructions.

1. DBE Firm	2. Work or Items to be subcontracted	3. Supplier Y/N	4. Trucking Only	5. DBE Full Subcontract $	6. DBE Amount for Credit $
			O# L#		
			O# L#		
			O# L#		
			O# L#		
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			O# L#		
				$ 0.00	$ 0.00

Government Use Only Approved Amounts		
A =	$	%
V =	$	%
Total =	$	%

Signature:

Date:

Good faith effort approved: Yes ☐ No ☐

Prime Representative Signature & Date

DBE Office Signature & Date Approved

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: *(list all names of tiers if more than one)*	
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.	Participating DBE Firm Representative's Signature	Date
	Participating DBE Firm Representative's Name (Print Name)	
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 (Print Company Name)	
	DBE Firm's Address:	

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

☐ Off site Hauling

Official Form DT1506 can be found here: https://wisconsindot.gov/Documents/formdocs/dt1506.pdf

DOCUMENTATION OF GOOD FAITH EFFORT

Wisconsin Department of Transportation
DT1202 3/2020

Project ID	Proposal No.	Letting
Prime Contractor		County
Person Submitting Document		Telephone Number
Address		Email Address

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 Provision 6 (ASP-6)
Modifications to the standard specifications

Make the following revisions to the standard specifications:

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108 Prosecution and Progress

Add subsection 108.9.4.1 effective with the November 2023 letting:

108.9.4.1 Winter Suspension for Completion Date Contracts

(1) The contractor may request a winter suspension for a completion date contract. If the department determines weather conditions do not allow for the completion of the remaining work, the department may approve the contractor's request and determine the start date of the winter suspension. The end date of the winter suspension is March 31 or a date mutually agreed upon by both parties. For multi-year contracts, the department will only consider winter suspension for the final year of the contract.

(2) During winter suspension, store all materials in a manner that does not obstruct vehicular and pedestrian traffic and protect the materials from damage. Install traffic control and other safety devices necessary to protect the traveling public and pedestrians. Provide suitable drainage and install temporary erosion control where necessary. If the winter suspension begins when liquidated damages are being assessed, or when the work has not progressed as scheduled and would not have been completed prior to the completion date, the cost of necessary pre-suspension work is incidental. If the winter suspension begins prior to the contract completion date, and the work has progressed as scheduled and would have been completed prior to the completion date, the cost of pre-suspension work will be paid as specified under 109.4.

(3) For a winter suspension that begins prior to the contract completion date and the work has progressed as scheduled and would have been completed prior to the completion date, the engineer will extend contract time to correspond with the end of the winter suspension and liquidated damages will not be assessed during the winter suspension.

(4) For a winter suspension that begins when liquidated damages are being assessed or when the work has not progressed as scheduled and would not have been completed prior to the completion date, the engineer will not extend contract time. Time will be suspended until the end of the winter suspension. Liquidated damages will not be assessed during the winter suspension and liquidated damages will resume at the end of the winter suspension.

108.10.2 Excusable, Non-Compensable Delays

108.10.2.1 General

Replace entire section with the following effective with the January 2024 letting:

(1) Non-compensable delays, 108.10.2.1(3), are excusable delays not the contractor's or the department's fault. The engineer will not pay for the delay costs listed in 109.4.7 for non-compensable delays.

(2) For non-compensable delays under calendar day and completion date contracts, the engineer will extend contract time if the conditions specified in 108.10.1 are met. The department will relieve the contractor from associated liquidated damages, as specified in 108.11, if the engineer extends time under 108.10.1.

(3) The following are non-compensable delays:

1. Delays due to earthquakes, other cataclysmic phenomena of nature the contractor cannot foresee and avoid, severe weather or job conditions caused by recent weather as specified in 108.10.2.2.
2. Extraordinary delays in material deliveries the contractor or their suppliers cannot foresee and forestall resulting from strikes, lockouts, freight embargoes, industry-wide shortages, governmental acts, or sudden disasters.
3. Delays due to acts of the government, a political subdivision other than the department, or the public enemy.
4. Delays from fires or epidemics.
5. Delays from strikes beyond the contractor's power to settle not caused by improper acts or omissions of the contractor, their subcontractors, or their suppliers.
6. Altered quantities as specified in 109.3.

108.10.3 Excusable Compensable Delays

Replace entire section with the following effective with the January 2024 letting:

(1) Compensable delays are excusable delays due to the department's actions or lack of actions. The engineer will grant a time extension for a compensable delay if the conditions specified in 108.10.1 are met.

(2) The following are compensable delays:

1. A contract change for revised work as specified for extra work under 104.2.2.1, for a differing site condition under 104.2.2.2, or for significant changes in the character of the work under 104.2.2.4.
2. A contract change for an engineer-ordered suspension under 104.2.2.3.
3. The unexpected discovery of human remains, an archaeological find, or historical find consistent with 107.25.
4. The unexpected discovery of a hazardous substance consistent with 107.24.
5. The non-completion of work that utilities or other third parties perform, if that work is not completed as specified in the contract.

(3) For a compensable delay or a time extension, the department will relieve the contractor from associated liquidated damages under 108.11, and will pay the contractor for delay costs determined as follows:

1. Adjust the contract price as specified in 109.4.2 through 109.4.5 for delays under item 1 of 108.10.3(2).
2. Adjust the contract price as specified in 109.4.7 for delays under items 2 through 5 of 108.10.3(2).

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310 Open Graded Base

310.2 Materials

Replace paragraph two with the following effective with the November 2023 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]

SEIVE	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	<=1.5

[1] Size according to AASHTO M43.

---

390 Base Patching

390.4 Measurement

Replace entire section with the following effective with the November 2023 letting:

(1) The department will measure Removing Pavement for Base Patching by the cubic yard acceptably completed. Measure the depth from the bottom of the adjacent pavement to the top of the patch.

(2) The department will measure Base Patching Asphaltic by the ton acceptably completed as specified for asphaltic pavement in 450.4.

(3) The department will measure Base Patching Concrete HES and Base Patching Concrete SHES by the cubic yard acceptably completed. Measure the depth from the bottom of the adjacent pavement to the top of the patch.

390.5 Payment

Replace entire section with the following effective with the November 2023 letting:

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

ITEM NUMBER	DESCRIPTION	UNIT
390.0100	Removing Pavement for Base Patching	CY
390.0201	Base Patching Asphaltic	TON
390.0305	Base Patching Concrete HES	CY
390.0405	Base Patching Concrete SHES	CY

(2) Payment for Removing Pavement for Base Patching is full compensation for removing old pavement; for preparing the foundation and bringing up to grade. If the engineer orders the contractor to excavate yielding or unstable subgrade materials and backfill with suitable materials, the department will pay for that work with contract bid items or as agreed upon using 109.4.

(3) Payment for Base Patching Asphaltic is full compensation for providing and compacting asphaltic mixture including asphaltic binder.

(4) Payment for Base Patching Concrete HES and Base Patching Concrete SHES is full compensation for providing, curing, and protecting concrete. Payment also includes providing tie bars and dowel bars in unhardened concrete and steel within the patch. For tie bars and dowel bars provided in concrete not placed under the contract, the department will pay separately under the Drilled Tie Bars and Drilled Dowel Bars bid items as specified in 416.5.

(5) Payment for Base Patching SHES also includes providing test data to the engineer as specified in 416.2.4.

(6) The department will pay for sawing existing concrete pavement for removal under the Sawing Concrete bid item as specified in 690.5.

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460 Hot Mix Asphalt Pavement

460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater

Replace paragraph four with the following effective with the November 2023 letting:

(4) Use the test methods identified below, or other methods the engineer approves, to perform the following tests at the frequency indicated:

Blended aggregate gradations:

Drum plants:

- Field extraction by ignition oven according to WTM T308, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to WTM D8159. Gradation of resulting aggregate sample determined according to WTM T30.
- Belt samples, optional for virgin mixtures, obtained from stopped belt or from the belt discharge using an engineer-approved sampling device and performed according to WTM T11 and T27.

Batch plants:

- Field extraction by ignition oven according to WTM T308, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to WTM D8159. Gradation of resulting aggregate sample determined according to WTM T30.

Asphalt content (AC) in percent:

Determine AC using one of the following methods:

- AC by ignition oven according to WTM T308.
- AC by chemical extraction according to AASHTO T-164 method A or B.
- AC by automated extraction according to WTM D8159.
- If the department is using an ignition oven to determine AC, conform to WTP H003.
- If the department is not using an ignition oven to determine AC, ignition oven correction factor (IOCF) must still be reverified for any of the reasons listed in WTP H003 Table 2 and conform to WTP H-003 sections 3 through 6.
- Gradation of resulting aggregate sample determined according to WTM T30.

Bulk specific gravity of the compacted mixture:

According to WTM T166.

Theoretical maximum specific gravity:

According to WTM T209.

Air voids (Va) by calculation according to WTM T269.

VMA by calculation according to WTM R35.

460.2.8.3.1.4 Department Verification Testing Requirements

Replace paragraph three with the following effective with the November 2023 letting:

(3) The department will perform testing conforming to the following standards:

Bulk specific gravity (G_{mb}) of the compacted mixture according to WTM T166.

Maximum specific gravity (Gmm) according to WTM T209.

Air voids (Va) by calculation according to WTM T269.

VMA by calculation according to WTM R35.

Asphalt content by ignition oven according to WTM T308, chemical extraction according to AASHTO T-164 method A or B, or automated extraction according to WTM D8159. If using an ignition oven to determine AC, conform to WTP H-003.

460.3.3.2 Pavement Density Determinations

Replace entire section with the following effective with the February 2024 letting:

(1) The engineer will determine the target maximum density using department procedures described in WTM T355. The engineer will determine density according to CMM 815 and WTM T355 as soon as practicable after compaction and before placement of subsequent layers or before opening to traffic.

(2) Do not re-roll compacted mixtures with deficient density test results. Do not operate continuously below the specified minimum density. Stop production, identify the source of the problem, and make corrections to produce work meeting the specification requirements.

(3) A lot is defined as one day's production for each sublot type or one production shift if running 24 hours per day and placed within a single layer for each location and target maximum density category indicated in table 460-3. The lot density is the average of the tests taken for that lot. The department determines the number of tests per lot according to WTP H-002.

(4) An HTCP-certified Nuclear Density Technician I (NUCDENSITYTEC-I) or a nuclear density ACT working under a NUCDENSITYTEC-I technician, will locate samples and perform the testing. A NUCDENSITYTEC-I technician will coordinate and take responsibility for the work an ACT performs. No more than one ACT can work under a single NUCDENSITYTEC-I technician. The responsible NUCDENSITYTEC-I technician will ensure that sample location and testing is performed correctly, analyze test results, and provide density results to the contractor weekly.

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503 Prestressed Concrete Members

503.2.2 Concrete

Replace paragraph five with the following effective with the November 2023 letting:

(5) Furnish prestressed concrete members cast from air-entrained concrete, except I-type girders may use non-air-entrained concrete. Use type I, IL, IS, IP, IT, II, or III cement. The contractor may replace up to 30 percent of type I, IL, II, or III cement with an equal weight of fly ash, slag, or a combination of fly ash and slag. Ensure that fly ash conforms to 501.2.4.2.2 and slag conforms to 501.2.4.2.3. Use only one source and replacement rate for work under a single bid item. Use a department-approved air-entraining admixture conforming to 501.2.5.2 for air-entrained concrete. Use only coarse aggregate conforming to 310.2(2).

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604 Slope Paving

604.2 Materials

Replace paragraph three with the following effective with the November 2023 letting:

(3) Under the Slope Paving Crushed Aggregate bid item, furnish crushed stone or crushed gravel conforming to the gradation in Table 604-01, but with the additional requirements that at least 75 percent of the particles, by count, have at least one fractured face. Determine fracture according to WTM D5821.

TABLE 604-01 COARSE AGGREGATE (% passing by weight)

AASHTO No. 4[1]

SEIVE	COARSE AGGREGATE (% PASSING by WEIGHT) AASHTO No. 4
2-inch	100
1 1/2-inch	90 - 100
1-inch	20 - 55
3/4-inch	0 - 15
1/2-inch	-
3/8-inch	0 - 5
No. 4	-
No. 8	-
No. 16	-
No. 30	-
No. 50	-
No. 100	-
No. 200	<=1.5

[1] Size according to AASHTO M43.

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612 Underdrains

612.3.9 Trench Underdrains

Replace paragraph one with the following effective with the November 2023 letting:

(1) Under the Underdrain Trench bid item, excavate and backfill underdrain trenches. Backfill with coarse aggregate gradation conforming to 604.2(3). Before backfilling place geotextile as the plans show.

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614 Semi-rigid Barrier Systems and End Treatments

614.2.6 Sand Barrel Arrays

Replace paragraph one with the following effective with the November 2023 letting:

(1) Furnish sand barrels from the APL. Use fine aggregate conforming to gradation shown in Table 614-2 mixed with sodium chloride conforming to AASHTO M143. Apply an object marker to front-most barrel in the array.

TABLE 614-2 FINE AGGREGATE GRADATION

SEIVE	FINE AGGREGATE (% PASSING by WEIGHT)
3/8-inch	100
No. 4	90 - 100
No. 8	-
No. 16	45 - 85
No. 30	-
No. 50	5 - 30
No. 100	0 - 10
No. 200	<=3.5

628 Erosion Control

628.2.13 Rock Bags

Replace paragraph two with the following effective with the November 2023 letting:

(2) Fill the bags with a clean, sound, hard, durable, engineer-approved coarse aggregate conforming by visual inspection to the gradation specified for coarse aggregate gradation in 604.2(3).

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639 Drilling Wells

639.2.1 General

Replace paragraph two with the following effective with the November 2023 letting:

(2) For grout use fine aggregate conforming to 501.2.7.2; and gradation conforming to 614.2.6(1); and type I, IL, IS, IP, or IT cement.

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652 Electrical Conduit

652.3.1.2 Installing Underground

Replace paragraph two with the following effective with the November 2023 letting:

(2) Excavate trenches true to line and grade to provide the conduit uniform bearing throughout its length. Do not backfill the trench before inspecting the conduit. Carefully tamp the backfill in place as specified for placing backfill in layers in 651.3. Place at least 0.7 cubic feet of coarse aggregate gradation conforming to 604.2(3) directly under each drainage hole.

ERRATA

390.3.4 Special High Early Strength Concrete Patching

Correct errata link in paragraph (1) by changing from 416.3.8 to 416.3.7.

(1) Construct as specified for special high early strength repairs under 416.3.7 except as follows:

- The contractor may delay removal for up to 14 calendar days after cutting the existing pavement.
- Open to traffic as specified for concrete base in 320.3.

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) 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. 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 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 or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.

(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) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at paul.ndon@dot.wi.gov. Not every contractor's payroll system is capable of producing 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

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 reprocurement 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 reprocurement 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 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).

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:

County	%	County	%	County	%
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.

BUY AMERICA PROVISION

Buy America (as documented in 88 FR 57750 (2 CFR part 184 and 200) from the Office of Management and Budget: Federal Register: Guidance for Grants and Agreements) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

1. Iron and Steel

   All iron and steel manufacturing and coating processes (from the initial melting stage through the application of coatings) must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America.

   The exemption of the iron and steel manufacturing and coating processes Buy America requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or $2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project.

2. Manufactured Product

   All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983 and are currently exempt from Buy America.

3. Construction Material

   All construction materials (as defined in 88 FR 57750 (2 CFR part 184 and 200) and as referenced in CMM 228.5) must comply with Buy America. All manufacturing process of construction materials must occur in the United States.

88 FR 55817 (DOT-OST-2022-0124) allows a limited waiver of Buy America requirements for de minimis costs and small grants.

- The Total value of the non-compliant products is no more than the lesser of $1,000,000 or 5% of total applicable costs for the project[1]; or
- The total amount of Federal financial assistance applied to the project, through awards or subaward, is below $500,000[2]

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Buy America provision.

https://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf

Upon completion of the project, certify to the engineer, in writing using department form DT4567 that all iron and steel, manufactured products, and construction materials conform to this Buy America provision.

Form DT4567 is available at: https://wisconsindot.gov/Documents/formdocs/dt4567.docx

Attach a list of iron or steel and construction material exemptions and their associated costs to the certification form.

1 The de minimis public interest waiver does not apply to iron and steel subject to the requirements of 23 U.S.C. 313 on financial assistant administered by FHWA. The de minimis threshold in 23 CFR 635.410(b)(4) continues to apply for iron and steel.
2 The small grant portion of the waiver does not apply to iron, steel, and manufactured goods subject to the requirements of 49 U.S.C. 22905(a).

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. Itis 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

"General Decision Number: WI20240010 08/23/2024

Superseded General Decision Number: WI20230010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024

1	01/26/2024
2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/24/2024
6	06/21/2024
7	06/28/2024
8	07/05/2024
9	08/02/2024
10	08/23/2024

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 47.10	25.16

BRWI0002-005 06/01/2023

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0004-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.50	26.96

BRWI0006-002 06/01/2023

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.08	25.98

BRWI0007-002 06/01/2023

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.95	26.80

BRWI0008-002 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.96	25.67

BRWI0011-002 06/01/2023

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0019-002 06/01/2023

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 39.32	26.74

BRWI0034-002 06/01/2023

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

CARP0068-011 05/02/2022

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

CARPENTER.....$ 41.91 29.72

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* CARP0310-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

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* CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

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* CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP1056-002 06/01/2024

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, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

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* CARP1074-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

ELEC0014-002 05/26/2024

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, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes

Electricians:.....$ 42.73 23.99

ELEC0014-007 05/26/2024

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	$ 30.27	19.11

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

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

	Rates	Fringes
ELECTRICIAN.....	$ 36.14	29.75%+10.26

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* ELEC0159-003 05/26/2024

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

	Rates	Fringes
ELECTRICIAN.....	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		

$180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

* ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 46.23	69.19%

ELEC0388-002 06/01/2023

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

	Rates	Fringes
Electricians:	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 46.70	25.02

* ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 49.48	27.34

* ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 42.77	24.66

* ELEC0494-013 05/26/2024

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer	$ 36.03	18.87
Technician	$ 36.03	18.87

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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ELEC0577-003 06/01/2023

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

	Rates	Fringes
Electricians:	$ 38.94	29.50%+10.00

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

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* ENGI0139-005 06/01/2024

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 46.37	28.80
Group 2	$ 45.87	28.80
Group 3	$ 44.77	28.80

Group 4	$ 44.51	28.80
Group 5	$ 44.22	28.80
Group 6	$ 38.32	28.80

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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.

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.

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; bituminious 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 machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

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

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

GROUP 6: Off-road material hauler with or without ejector.

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* IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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* IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

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

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

IRON0498-005 06/01/2023

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 45.18	47.08

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes

IRONWORKER.....$ 43.00 34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.14	34.00

LABO0113-002 06/03/2024

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.61	25.01
Group 2	$ 35.76	25.01
Group 3	$ 35.96	25.01
Group 4	$ 36.11	25.01
Group 5	$ 36.26	25.01
Group 6	$ 32.10	25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/03/2024

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.86	25.01
Group 2	$ 34.96	25.01
Group 3	$ 35.01	25.01
Group 4	$ 35.21	25.01
Group 5	$ 35.06	25.01
Group 6	$ 31.95	25.01

LABORERS CLASSIFICATIONS

  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

  GROUP 2: Air Tool Operator; Joint Sawer and Filler
  (Pavement); Vibrator or Tamper Operator (Mechanical Hand
  Operated);

  GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
  (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

 LABO0113-011 06/03/2024

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.67	25.01
Group 2	$ 34.82	25.01
Group 3	$ 35.02	25.01
Group 4	$ 34.99	25.01
Group 5	$ 35.52	25.01
Group 6	$ 31.81	25.01

LABORERS CLASSIFICATIONS:

  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

  GROUP 2: Air Tool Operator; Joint Sawer and Filler
  (Pavement); Vibrator or Tamper Operator (Mechanical Hand
  Operated); Chain Saw Operator; Demolition Burning Torch
  Laborer

  GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
  (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

 LABO0140-002 06/03/2024

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. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 40.57	19.45
Group 2	$ 40.67	19.45
Group 3	$ 40.72	19.45
Group 4	$ 40.92	19.45
Group 5	$ 40.77	19.45
Group 6	$ 37.20	19.45

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/03/2024

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 40.85	19.45
Group 2	$ 40.95	19.45
Group 3	$ 41.00	19.45
Group 4	$ 41.20	19.45
Group 5	$ 41.05	19.45
Group 6	$ 37.20	19.45

LABORERS CLASSIFICATIONS:

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; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/06/2024

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 36.16	26.27
Spray, Sandblast, Steel	$ 36.76	26.27
Repaint:		
Brush, Roller	$ 34.66	26.27
Spray, Sandblast, Steel	$ 35.26	26.27

PAIN0108-002 06/01/2024

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 42.04	22.95
Spray & Sandblast	$ 43.04	22.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2024

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 41.39	24.92
Brush	$ 40.64	24.92
Spray & Sandblast	$ 41.39	24.92

PAIN0802-002 06/01/2024

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 36.35	20.87

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2024

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

	Rates	Fringes
PAINTER	$ 36.35	20.87

PAIN0934-001 06/01/2024

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 38.67	26.32
Spray	$ 39.67	26.32
Structural Steel	$ 38.82	26.32

PAIN1011-002 06/02/2024

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 29.95	15.89

PLAS0599-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		

Area A	$ 45.17	27.27
Area B	$ 39.97	25.02
Area C	$ 40.40	25.25
Area D	$ 41.16	24.49
Area E	$ 40.50	25.14
Area F	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: 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, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 37.57	27.41
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 37.72	27.41

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.

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 classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of 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. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the

classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was 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. 01/03/2024 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:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write 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 the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by 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

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

"General Decision Number: WI20240015 08/23/2024

Superseded General Decision Number: WI20230015

State: Wisconsin

Construction Type: Heavy

Counties: Wisconsin Statewide.

HEAVY CONSTRUCTION PROJECTS (Excluding Tunnel, Sewer, and Water Lines).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024
1	01/26/2024

2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/10/2024
6	05/24/2024
7	06/21/2024
8	06/28/2024
9	07/05/2024
10	08/02/2024
11	08/23/2024

BOIL0107-001 01/01/2021

	Rates	Fringes
BOILERMAKER		
Boilermaker	$ 39.52	31.50
Small Boiler Repair (under 25,000 lbs/hr)	$ 26.91	16.00

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 47.10	25.16

BRWI0002-005 06/01/2023

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0004-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.50	26.96

BRWI0006-002 06/01/2023

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.08	25.98

BRWI0007-002 06/01/2023

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.95	26.80

BRWI0008-002 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.96	25.67

BRWI0009-001 06/01/2023

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0011-002 06/01/2023

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0013-002 06/01/2023

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

BRWI0019-002 06/01/2023

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 39.32	26.74

BRWI0021-002 06/01/2023

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.49	27.24

BRWI0034-002 06/01/2023

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

CARP0068-011 05/02/2022

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
CARPENTER	$ 41.91	29.72

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* CARP0310-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

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* CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

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* CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP1056-002 06/01/2024

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, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

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* CARP1074-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes

CARPENTER.....$ 42.44 28.44
PILEDRIVER.....$ 42.44 28.44

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* CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

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* CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

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* CARP2337-010 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
MILLWRIGHT	$ 42.31	32.21

ELEC0014-002 05/26/2024

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, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 42.73	23.99

ELEC0014-007 05/26/2024

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 30.27	19.11

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

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* ELEC0159-003 05/26/2024

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

	Rates	Fringes
ELECTRICIAN	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

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* ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 46.23	69.19%

ELEC0388-002 06/01/2023

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

	Rates	Fringes
Electricians:	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 46.70	25.02

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* ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 49.48	27.34

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* ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 42.77	24.66

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* ELEC0494-013 05/26/2024

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer:	$ 36.03	18.87
Technician:	$ 36.03	18.87

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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ELEC0577-003 06/01/2023

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

	Rates	Fringes
Electricians:	$ 38.94	29.50%+10.00

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

ENGI0139-001 06/01/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 50.21	24.05
Group 2	$ 49.71	24.05
Group 3	$ 49.21	24.05
Group 4	$ 48.37	24.05
Group 5	$ 44.39	24.05
Group 6	$ 39.24	24.05

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or w/o attachments with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Self-Erecting Tower Cranes over 4000 lbs lifting capacity; All Cranes with Boom Dollies; Boring Machines (directional); Master Mechanic.

$0.50 additional per hour per 100 tons or 100 ft of boom over 200 ft or lifting capacity of crane over 200 tons to a maximum of 300 tons or 300 ft. Thereafter an increase of $0.01 per ft or ton, whichever is greater.

GROUP 2: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; or Cranes, Tower Cranes Portable Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leadsand/or jib lengths measuring 175 feet or less; Backhoes (excavators) 130,000 lbs and over; Caisson Rigs; Pile Drivers; Boring Machines (vertical or horizontal), Versi-Lift, Tri-Lift, Gantry 20,000 lbs & over.

GROUP 3: Backhoe (excavator) under 130,000 lbs;Self-erecting Tower Crane 4000 lbs & under lifting capacity;Traveling Crane (bridge type); Skid Rigs; Dredge Operator; Mechanic; Concrete Paver (over 27E); Concrete Spreader and Distributor; Forklift/ Telehandler (machinery- moving / steel erection); Hydro Blaster, 10,000 psi and over

GROUP 4: Material Hoists; Stack Hoists; Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 5 tons or under (tractor or truck mounted); Hoist (tuggers 5 tons & over); Hydro-Excavators/Daylighters; Concrete Pumps Rotec type Conveyors; Tractor/Bulldozer/End Loader (over 40 hp); Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Rotary Drill Operator and Blaster; Percussion Drill Operator; Air Track Drill and/or Hammers; Gantrys (under 20,000 lbs); Tencher (wheel type or chain type having 8 inch or larger bucket); Milling Machine; Off-Road Material Haulers.

GROUP 5: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machines (road type); Rubber Tired Roller; Concrete Batch Hopper; Concrete Conveyor Systems; Grout Pumps; Concrete Mixers (14S or over); Screw Type Pumps and Gypsum Pumps; Tractor, Bulldozer, End Loader (under 40 hp); Trencher (chain type, bucket under 8 inch); Industrial Locomotives; Rollers under 5 tons; Stump Grinder/Chipper (Large); Timber Equipment; Firemen (pile drivers and derricks); Personnel Hoist, Telehandler over 8000 lbs; Robotic Tool Carrier with or without attachments

GROUP 6: Tampers - Compactors (riding type); Assistant Engineer; A-Frames and Winch Trucks; Concrete Auto Breaker; Hydrohammers (small); Brooms and Sweepers; Hoist (tuggers under 5 tons); Boats (Tug, Safety, Work Barges, Launch); Shouldering Machine Operator; Prestress Machines; Screed Operator; Stone Crushers and Screening Plants; Screed Operators (milling machine), Farm or Industrial Tractor Mounted Equipment; Post Hole Digger; Fireman (asphalt plants); Air Compressors over 400 CFM; Generators, over 150 KW; Augers (vertical and horizontal); Air, Electric, Hydraulic Jacks (slipform); Skid Steer Loaders (with or without attachments); Boiler Operators (temporary heat); Refrigeration Plant/Freeze Machines; Power Pack Vibratory/Ultra Sound Drivers and Extractors; Welding Machines; Heaters (mechanical); Pumps; Winches (small electric); Oiler and Greaser; Rotary Drill Tender; Conveyor; Forklifts/Telehandler 8000 lbs & under; Elevators: Automatic Hoists; Pumps (well points); Combination Small Equipment Operators

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ENGI0139-003 06/03/2024

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 48.78	27.14
Group 2	$ 47.53	27.14
Group 3	$ 44.23	27.14
Group 4	$ 43.70	27.14
Group 5	$ 41.63	27.14
Group 6	$ 40.10	27.14

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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.

GROUP 2: Backhoes (Excavators) 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

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.

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.

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 Sweeeprs; 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

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/Freese 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

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* IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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* IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

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

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 43.00	34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.14	34.00

LABO0113-002 06/03/2024

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.61	25.01
Group 2	$ 35.76	25.01
Group 3	$ 35.96	25.01
Group 4	$ 36.11	25.01
Group 5	$ 36.26	25.01
Group 6	$ 32.10	25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/03/2024

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		

Group 1	$ 34.86	25.01
Group 2	$ 34.96	25.01
Group 3	$ 35.01	25.01
Group 4	$ 35.21	25.01
Group 5	$ 35.06	25.01
Group 6	$ 31.95	25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/03/2024

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.67	25.01
Group 2	$ 34.82	25.01
Group 3	$ 35.02	25.01
Group 4	$ 34.99	25.01
Group 5	$ 35.52	25.01
Group 6	$ 31.81	25.01

LABORERS CLASSIFICATIONS:

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/03/2024

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. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 40.57	19.45
Group 2	$ 40.67	19.45
Group 3	$ 40.72	19.45
Group 4	$ 40.92	19.45
Group 5	$ 40.77	19.45
Group 6	$ 37.20	19.45

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/03/2024

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 40.85	19.45
Group 2	$ 40.95	19.45
Group 3	$ 41.00	19.45
Group 4	$ 41.20	19.45

Group 5	$ 41.05	19.45
Group 6	$ 37.20	19.45

LABORERS CLASSIFICATIONS:

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; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/06/2024

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 36.16	26.27
Spray, Sandblast, Steel	$ 36.76	26.27
Repaint:		
Brush, Roller	$ 34.66	26.27
Spray, Sandblast, Steel	$ 35.26	26.27

PAIN0108-002 06/01/2024

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 42.04	22.95
Spray & Sandblast	$ 43.04	22.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND

VERNON COUNTIES

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2024

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 41.39	24.92
Brush	$ 40.64	24.92
Spray & Sandblast	$ 41.39	24.92

PAIN0802-002 06/01/2024

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 36.35	20.87

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2024

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

	Rates	Fringes
PAINTER	$ 36.35	20.87

PAIN0934-001 06/01/2024

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 38.67	26.32
Spray	$ 39.67	26.32
Structural Steel	$ 38.82	26.32

PAIN1011-002 06/02/2024

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 29.95	15.89

PLAS0599-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A	$ 45.17	27.27
Area B	$ 39.97	25.02
Area C	$ 40.40	25.25
Area D	$ 41.16	24.49
Area E	$ 40.50	25.14
Area F	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: 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, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

PLUM0011-003 05/06/2024

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
PLUMBER	$ 49.32	27.18

PLUM0075-002 06/01/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
PLUMBER	$ 57.60	26.90

PLUM0075-004 06/01/2024

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
PLUMBER	$ 57.60	26.90

PLUM0075-009 06/01/2024

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PLUMBER	$ 58.12	26.34

PLUM0111-007 06/03/2024

MARINETTE COUNTY (Niagara only)

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 43.90	27.53

PLUM0118-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
Plumber and Steamfitter	$ 50.50	25.47

PLUM0400-003 05/31/2024

ADAMS,BROWN, CALUMET, DODGE (except Watertown), DOOR, FOND DU LAC, GREEN LAKE,KEWAUNEE, MANITOWOC, MARINETTE (except Niagara), MENOMINEE, OCONTO, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 49.00	21.84

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* PLUM0434-002 06/16/2024

BARON, BUFFALO, CHIPPEWA, CLARK, CRAWFORD, DUNN, EAU CLAIRE, FLORENCE, FOREST, GRANT, JACKSON, JUNEAU, LA CROSSE, LANGLADE, LINCOLN, MARATHON, MONROE, ONEIDA, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RUSK, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILAS, AND WOOD COUNTIES

	Rates	Fringes
PIPEFITTER	$ 49.24	24.38

PLUM0601-003 06/03/2024

Zone 1

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, MILWAUKEE, OZAUKEE, ROCK, WASHINGTON AND WAUKESHA COUNTIES

	Rates	Fringes
PIPEFITTER	$ 55.67	31.19

PLUM0601-009 06/03/2024

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PIPEFITTER	$ 56.88	30.01

TEAM0039-002 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axle Trucks	$ 37.57	27.41
3 or more axles; Euclids or Dumptor, Articulated Truck, Mechanic	$ 37.72	27.41

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* SUWI2011-001 11/16/2011

	Rates	Fringes
WELL DRILLER	$ 16.52 **	

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 ($17.20) or 13658 ($12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

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.

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 classification and wage rates that have been found to be prevailing for the

cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of 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. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was 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. 01/03/2024 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:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write 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 the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by 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

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

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 ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	201.0205 Grubbing	103.000 STA	_____.____	_____.____
0004	203.0220 Removing Structure (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0006	203.0220 Removing Structure (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0008	203.0220 Removing Structure (structure) 0106. C-40-47	1.000 EACH	_____.____	_____.____
0010	203.0220 Removing Structure (structure) 0107. N-40-88	1.000 EACH	_____.____	_____.____
0012	203.0330 Debris Containment (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0014	203.0330 Debris Containment (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0016	203.0335 Debris Containment Over Waterway (structure) 0101. B-40-216	1.000 EACH	_____.____	_____.____
0018	203.0335 Debris Containment Over Waterway (structure) 0102. B-40-217	1.000 EACH	_____.____	_____.____
0020	204.0100 Removing Concrete Pavement	12,564.000 SY	_____.____	_____.____
0022	204.0109.S Removing Concrete Surface Partial Depth	285,943.000 SF	_____.____	_____.____
0024	204.0115 Removing Asphaltic Surface Butt Joints	366.000 SY	_____.____	_____.____
0026	204.0120 Removing Asphaltic Surface Milling	206,154.000 SY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0028	204.0126.S Removing Asphaltic Longitudinal Notched Wedge Joint Milling	43,435.000 LF	_____.____	_____.____
0030	204.0150 Removing Curb & Gutter	1,076.000 LF	_____.____	_____.____
0032	204.0157 Removing Concrete Barrier	5,720.000 LF	_____.____	_____.____
0034	204.0165 Removing Guardrail	5,357.000 LF	_____.____	_____.____
0036	204.0170 Removing Fence	1,143.000 LF	_____.____	_____.____
0038	204.0175 Removing Concrete Slope Paving	450.000 SY	_____.____	_____.____
0040	204.0195 Removing Concrete Bases	27.000 EACH	_____.____	_____.____
0042	204.0246 Removing Ancillary Structure (structure) 0001. S-40-237	1.000 EACH	_____.____	_____.____
0044	204.0246 Removing Ancillary Structure (structure) 0006. S-40-400	1.000 EACH	_____.____	_____.____
0046	204.0246 Removing Ancillary Structure (structure) 0010. S-40-238	1.000 EACH	_____.____	_____.____
0048	204.0246 Removing Ancillary Structure (structure) 0011. S-40-239	1.000 EACH	_____.____	_____.____
0050	204.0291.S Abandoning Sewer	3.620 CY	_____.____	_____.____
0052	204.9060.S Removing (item description) 0100. Traffic Signals IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0054	204.9060.S Removing (item description) 0101. Loop Detect Wire & Cable IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0056	204.9060.S Removing (item description) 1001. Removing Lighting Units	14.000 EACH	_____.____	_____.____
0058	204.9060.S Removing (item description) 1002. Concrete Bases Type HF3	5.000 EACH	_____.____	_____.____
0060	204.9060.S Removing (item description) 1003. Poles Wood 60-FT	1.000 EACH	_____.____	_____.____
0062	204.9060.S Removing (item description) 1004. Poles Wood 60-FT and Floodlights	8.000 EACH	_____.____	_____.____
0064	205.0100 Excavation Common	19,070.000 CY	_____.____	_____.____
0066	206.1001 Excavation for Structures Bridges (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0068	206.1001 Excavation for Structures Bridges (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0070	206.2001 Excavation for Structures Culverts (structure) 0106. C-40-47	1.000 EACH	_____.____	_____.____
0072	210.1500 Backfill Structure Type A	960.000 TON	_____.____	_____.____
0074	213.0100 Finishing Roadway (project) 0001. 1100-20-70	1.000 EACH	_____.____	_____.____
0076	213.0100 Finishing Roadway (project) 0002. 1100-20-71	1.000 EACH	_____.____	_____.____
0078	305.0110 Base Aggregate Dense 3/4-Inch	146.000 TON	_____.____	_____.____
0080	305.0120 Base Aggregate Dense 1 1/4-Inch	7,901.000 TON	_____.____	_____.____
0082	312.0110 Select Crushed Material	19,387.000 TON	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	390.0100 Removing Pavement for Base Patching	9,414.000 CY	_____.____	_____.____
0086	390.0305 Base Patching Concrete HES	1,542.000 CY	_____.____	_____.____
0088	390.0405 Base Patching Concrete SHES	1,427.000 CY	_____.____	_____.____
0090	415.0060 Concrete Pavement 6-Inch	516.000 SY	_____.____	_____.____
0092	415.0080 Concrete Pavement 8-Inch	2,061.000 SY	_____.____	_____.____
0094	415.0090 Concrete Pavement 9-Inch	15.000 SY	_____.____	_____.____
0096	415.0100 Concrete Pavement 10-Inch	4,833.000 SY	_____.____	_____.____
0098	415.1410 Concrete Pavement Approach Slab HES	1,841.000 SY	_____.____	_____.____
0100	416.0610 Drilled Tie Bars	5,302.000 EACH	_____.____	_____.____
0102	416.0620 Drilled Dowel Bars	16,739.000 EACH	_____.____	_____.____
0104	416.1710 Concrete Pavement Repair	857.000 SY	_____.____	_____.____
0106	416.1715 Concrete Pavement Repair SHES	16.000 SY	_____.____	_____.____
0108	416.1720 Concrete Pavement Replacement	129.000 SY	_____.____	_____.____
0110	416.1725 Concrete Pavement Replacement SHES	1,018.000 SY	_____.____	_____.____
0112	420.1000 Continuous Diamond Grinding Concrete Pavement	14,122.000 SY	_____.____	_____.____
0114	450.4000 HMA Cold Weather Paving	13,922.000 TON	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0116	455.0605 Tack Coat	26,085.000 GAL	_____._____	_____._____
0118	460.0105.S HMA Percent Within Limits (PWL) Test Strip Volumetrics	1.000 EACH	_____._____	_____._____
0120	460.0115.S HMA Pavement Test Strip Volumetrics	1.000 EACH	_____._____	_____._____
0122	460.0120.S HMA Pavement Test Strip Density	1.000 EACH	_____._____	_____._____
0124	460.2000 Incentive Density HMA Pavement	16,600.000 DOL	1.00000	16,600.00
0126	460.2007 Incentive Density HMA Pavement Longitudinal Joints	7,781.000 DOL	1.00000	7,781.00
0128	460.2010 Incentive Air Voids HMA Pavement	30,720.000 DOL	1.00000	30,720.00
0130	460.7423 HMA Pavement 3 HT 58-28 H	33,802.000 TON	_____._____	_____._____
0132	460.8625 HMA Pavement 5 SMA 58-28 V	26,309.000 TON	_____._____	_____._____
0134	460.9000.S Material Transfer Vehicle	1.000 EACH	_____._____	_____._____
0136	502.0100 Concrete Masonry Bridges	973.000 CY	_____._____	_____._____
0138	502.0717.S Crack Sealing Epoxy	2,490.000 LF	_____._____	_____._____
0140	502.3101 Expansion Device	861.000 LF	_____._____	_____._____
0142	502.3200 Protective Surface Treatment	100.000 SY	_____._____	_____._____
0144	502.3205 Pigmented Surface Sealer Reseal	2,021.000 SY	_____._____	_____._____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0146	502.3210 Pigmented Surface Sealer	452.000 SY	_____.____	_____.____
0148	502.3215 Protective Surface Treatment Reseal	2,171.000 SY	_____.____	_____.____
0150	502.4204 Adhesive Anchors No. 4 Bar	64.000 EACH	_____.____	_____.____
0152	502.4205 Adhesive Anchors No. 5 Bar	874.000 EACH	_____.____	_____.____
0154	502.4206 Adhesive Anchors No. 6 Bar	42.000 EACH	_____.____	_____.____
0156	502.4209 Adhesive Anchors No. 9 Bar	14.000 EACH	_____.____	_____.____
0158	504.0100 Concrete Masonry Culverts	12.000 CY	_____.____	_____.____
0160	505.0400 Bar Steel Reinforcement HS Structures	5,730.000 LB	_____.____	_____.____
0162	505.0600 Bar Steel Reinforcement HS Coated Structures	184,830.000 LB	_____.____	_____.____
0164	505.0904 Bar Couplers No. 4	16.000 EACH	_____.____	_____.____
0166	505.0905 Bar Couplers No. 5	40.000 EACH	_____.____	_____.____
0168	505.0906 Bar Couplers No. 6	20.000 EACH	_____.____	_____.____
0170	506.0105 Structural Steel Carbon	17,030.000 LB	_____.____	_____.____
0172	506.0605 Structural Steel HS	209,300.000 LB	_____.____	_____.____
0174	506.2610 Bearing Pads Elastomeric Laminated	12.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0176	506.3008 Welded Stud Shear Connectors 5/8x5-Inch	42.000 EACH	_____.____	_____.____
0178	506.3020 Welded Stud Shear Connectors 7/8x7-Inch	1,936.000 EACH	_____.____	_____.____
0180	506.5000 Bearing Assemblies Fixed (structure) 0001. B-40-358	1.000 EACH	_____.____	_____.____
0182	506.5000 Bearing Assemblies Fixed (structure) 0002. B-40-359	2.000 EACH	_____.____	_____.____
0184	509.0301 Preparation Decks Type 1	127.000 SY	_____.____	_____.____
0186	509.0302 Preparation Decks Type 2	52.000 SY	_____.____	_____.____
0188	509.0310.S Sawing Pavement Deck Preparation Areas	1,430.000 LF	_____.____	_____.____
0190	509.0500 Cleaning Decks	9,402.000 SY	_____.____	_____.____
0192	509.1000 Joint Repair	347.000 SY	_____.____	_____.____
0194	509.1500 Concrete Surface Repair	548.000 SF	_____.____	_____.____
0196	509.2000 Full-Depth Deck Repair	8.000 SY	_____.____	_____.____
0198	509.2100.S Concrete Masonry Deck Repair	127.000 CY	_____.____	_____.____
0200	509.5100.S Polymer Overlay	4,738.000 SY	_____.____	_____.____
0202	509.9015.S Removing Polymer Overlay (structure) 0006. B-40-356	1,149.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0204	509.9015.S Removing Polymer Overlay (structure) 0007. B-40-357	1,149.000 SY	_____.____	_____.____
0206	509.9020.S Epoxy Crack Sealing	1,305.000 LF	_____.____	_____.____
0208	511.1200 Temporary Shoring (structure) 0008. B-40-358	1,200.000 SF	_____.____	_____.____
0210	511.1200 Temporary Shoring (structure) 0009. B-40-359	1,150.000 SF	_____.____	_____.____
0212	511.1300 Temporary Shoring (location) 0001. N-40-105	5,250.000 SF	_____.____	_____.____
0214	512.0500 Piling Steel Sheet Permanent Delivered	725.000 SF	_____.____	_____.____
0216	512.0600 Piling Steel Sheet Permanent Driven	710.000 SF	_____.____	_____.____
0218	516.0500 Rubberized Membrane Waterproofing	30.000 SY	_____.____	_____.____
0220	517.0601 Painting Epoxy System (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0222	517.0601 Painting Epoxy System (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0224	517.0901.S Preparation and Coating of Top Flanges (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0226	517.0901.S Preparation and Coating of Top Flanges (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0228	517.0901.S Preparation and Coating of Top Flanges (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0230	517.0901.S Preparation and Coating of Top Flanges (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0232	517.0901.S Preparation and Coating of Top Flanges (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0234	517.0901.S Preparation and Coating of Top Flanges (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0236	517.1801.S Structure Repainting Recycled Abrasive (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0238	517.1801.S Structure Repainting Recycled Abrasive (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0240	517.1801.S Structure Repainting Recycled Abrasive (structure) 0103. B-40-360	1.000 EACH	_____.____	_____.____
0242	517.1801.S Structure Repainting Recycled Abrasive (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0244	517.1801.S Structure Repainting Recycled Abrasive (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0246	517.3001.S Structure Overcoating Cleaning and Priming (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0248	517.3001.S Structure Overcoating Cleaning and Priming (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0250	517.4001.S Containment and Collection of Waste Materials (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0252	517.4001.S Containment and Collection of Waste Materials (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0254	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0256	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0258	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0103. B-40-360	1.000 EACH	_____.____	_____.____
0260	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0262	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0264	517.6001.S Portable Decontamination Facility	7.000 EACH	_____.____	_____.____
0266	520.8700 Cleaning Culvert Pipes	15.000 EACH	_____.____	_____.____
0268	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	8.000 EACH	_____.____	_____.____
0270	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	8.000 EACH	_____.____	_____.____
0272	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	2.000 EACH	_____.____	_____.____
0274	531.1100 Concrete Masonry Ancillary Structures Type NS	104.400 CY	_____.____	_____.____
0276	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	10,846.000 LB	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0278	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	6,280.000 LB	_____.____	_____.____
0280	531.2024 Drilling Shaft 24-Inch	170.000 LF	_____.____	_____.____
0282	531.2030 Drilling Shaft 30-Inch	60.000 LF	_____.____	_____.____
0284	531.2036 Drilling Shaft 36-Inch	320.000 LF	_____.____	_____.____
0286	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0288	531.6010 Foundation Two-Shaft Type FC-I (structure) 0003. S-40-3085	1.000 EACH	_____.____	_____.____
0290	531.6010 Foundation Two-Shaft Type FC-I (structure) 0012. S-40-3088	1.000 EACH	_____.____	_____.____
0292	531.6020 Foundation Two-Shaft Type FC-II (structure) 0002. S-40-3084	1.000 EACH	_____.____	_____.____
0294	531.6020 Foundation Two-Shaft Type FC-II (structure) 0004. S-40-3086	1.000 EACH	_____.____	_____.____
0296	531.6020 Foundation Two-Shaft Type FC-II (structure) 0005. S-40-3087	1.000 EACH	_____.____	_____.____
0298	531.6020 Foundation Two-Shaft Type FC-II (structure) 0013. S-40-3089	1.000 EACH	_____.____	_____.____
0300	532.5020 Butterfly 2-Chord NS (structure) 0001. S-40-3060	1.000 EACH	_____.____	_____.____
0302	532.5020 Butterfly 2-Chord NS (structure) 0010. S-40-3061	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0304	532.5020 Butterfly 2-Chord NS (structure) 0011. S-40-3062	1.000 EACH	_____.____	_____.____
0306	532.6010 Truss Cantilever 4-Chord Type I (structure) 0003. S-40-3085	1.000 EACH	_____.____	_____.____
0308	532.6010 Truss Cantilever 4-Chord Type I (structure) 0012. S-40-3088	1.000 EACH	_____.____	_____.____
0310	532.6020 Truss Cantilever 4-Chord Type II (structure) 0002. S-40-3084	1.000 EACH	_____.____	_____.____
0312	532.6020 Truss Cantilever 4-Chord Type II (structure) 0004. S-40-3086	1.000 EACH	_____.____	_____.____
0314	532.6020 Truss Cantilever 4-Chord Type II (structure) 0005. S-40-3087	1.000 EACH	_____.____	_____.____
0316	532.6020 Truss Cantilever 4-Chord Type II (structure) 0013. S-40-3089	1.000 EACH	_____.____	_____.____
0318	532.6120 Truss Full Span 4-Chord Type II (structure) 0006. S-40-462	1.000 EACH	_____.____	_____.____
0320	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0001. N-40-105	39,200.000 SF	_____.____	_____.____
0322	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0002. N-40-88	26,125.000 SF	_____.____	_____.____
0324	601.0411 Concrete Curb & Gutter 30-Inch Type D	12.000 LF	_____.____	_____.____
0326	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	78.000 LF	_____.____	_____.____
0328	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	697.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0330	601.0590 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	80.000 LF	_____.____	_____.____
0332	602.3010 Concrete Surface Drains	2.000 CY	_____.____	_____.____
0334	603.0105 Concrete Barrier Single-Faced 32-Inch	1,346.000 LF	_____.____	_____.____
0336	603.1142 Concrete Barrier Type S42	6,456.000 LF	_____.____	_____.____
0338	603.1156 Concrete Barrier Type S56	360.000 LF	_____.____	_____.____
0340	603.1242 Concrete Barrier Type S42A	1,686.000 LF	_____.____	_____.____
0342	603.1342 Concrete Barrier Type S42B	30.000 LF	_____.____	_____.____
0344	603.1442 Concrete Barrier Type S42C	400.000 LF	_____.____	_____.____
0346	603.3213 Concrete Barrier Transition Type F32SF to S36	9.000 EACH	_____.____	_____.____
0348	603.3535 Concrete Barrier Transition Type S36 to S42	9.000 EACH	_____.____	_____.____
0350	603.3559 Concrete Barrier Transition Type S42 to S56	8.000 EACH	_____.____	_____.____
0352	603.8000 Concrete Barrier Temporary Precast Delivered	42,549.000 LF	_____.____	_____.____
0354	603.8125 Concrete Barrier Temporary Precast Installed	72,050.000 LF	_____.____	_____.____
0356	604.0400 Slope Paving Concrete	450.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0358	604.0500 Slope Paving Crushed Aggregate	442.000 SY	_____.____	_____.____
0360	604.9015.S Reseal Crushed Aggregate Slope Paving	2,326.000 SY	_____.____	_____.____
0362	606.0200 Riprap Medium	370.000 CY	_____.____	_____.____
0364	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	12.000 LF	_____.____	_____.____
0366	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	829.000 LF	_____.____	_____.____
0368	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	3,470.000 LF	_____.____	_____.____
0370	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	8.000 LF	_____.____	_____.____
0372	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	48.000 LF	_____.____	_____.____
0374	611.0420 Reconstructing Manholes	1.000 EACH	_____.____	_____.____
0376	611.0530 Manhole Covers Type J	1.000 EACH	_____.____	_____.____
0378	611.0535 Manhole Covers Type J-Special	1.000 EACH	_____.____	_____.____
0380	611.0610 Inlet Covers Type BW	161.000 EACH	_____.____	_____.____
0382	611.0624 Inlet Covers Type H	1.000 EACH	_____.____	_____.____
0384	611.0642 Inlet Covers Type MS	9.000 EACH	_____.____	_____.____
0386	611.2005 Manholes 5-FT Diameter	11.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0388	611.2006 Manholes 6-FT Diameter	1.000 EACH	_____.____	_____.____
0390	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.____	_____.____
0392	611.2008 Manholes 8-FT Diameter	1.000 EACH	_____.____	_____.____
0394	611.3004 Inlets 4-FT Diameter	151.000 EACH	_____.____	_____.____
0396	611.3901 Inlets Median 1 Grate	2.000 EACH	_____.____	_____.____
0398	611.3902 Inlets Median 2 Grate	4.000 EACH	_____.____	_____.____
0400	611.8115 Adjusting Inlet Covers	1.000 EACH	_____.____	_____.____
0402	611.8120.S Cover Plates Temporary	2.000 EACH	_____.____	_____.____
0404	612.0206 Pipe Underdrain Unperforated 6-Inch	55.000 LF	_____.____	_____.____
0406	612.0406 Pipe Underdrain Wrapped 6-Inch	609.000 LF	_____.____	_____.____
0408	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	1.000 EACH	_____.____	_____.____
0410	614.0200 Steel Thrie Beam Structure Approach	21.000 LF	_____.____	_____.____
0412	614.0305 Steel Plate Beam Guard Class A	175.000 LF	_____.____	_____.____
0414	614.0905 Crash Cushions Temporary	11.000 EACH	_____.____	_____.____
0416	614.0925 Salvaged Guardrail End Treatments	16.000 EACH	_____.____	_____.____
0418	614.2300 MGS Guardrail 3	4,648.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0420	614.2330 MGS Guardrail 3 K	38.000 LF	_____.____	_____.____
0422	614.2500 MGS Thrie Beam Transition	553.000 LF	_____.____	_____.____
0424	614.2610 MGS Guardrail Terminal EAT	16.000 EACH	_____.____	_____.____
0426	614.2620 MGS Guardrail Terminal Type 2	4.000 EACH	_____.____	_____.____
0428	616.0206 Fence Chain Link 6-FT	1,123.000 LF	_____.____	_____.____
0430	616.0208 Fence Chain Link 8-FT	525.000 LF	_____.____	_____.____
0432	616.0329 Gates Chain Link (width) 0001. 3' width	4.000 EACH	_____.____	_____.____
0434	616.0700.S Fence Safety	50.000 LF	_____.____	_____.____
0436	618.0100 Maintenance and Repair of Haul Roads (project) 0001. 1100-20-70	1.000 EACH	_____.____	_____.____
0438	618.0100 Maintenance and Repair of Haul Roads (project) 0002. 1100-20-71	1.000 EACH	_____.____	_____.____
0440	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0442	623.0200 Dust Control Surface Treatment	29,011.000 SY	_____.____	_____.____
0444	624.0100 Water	190.000 MGAL	_____.____	_____.____
0446	625.0500 Salvaged Topsoil	94,900.000 SY	_____.____	_____.____
0448	627.0200 Mulching	13,800.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0450	628.1504 Silt Fence	12,620.000 LF	_____.____	_____.____
0452	628.1520 Silt Fence Maintenance	12,620.000 LF	_____.____	_____.____
0454	628.1905 Mobilizations Erosion Control	20.000 EACH	_____.____	_____.____
0456	628.1910 Mobilizations Emergency Erosion Control	12.000 EACH	_____.____	_____.____
0458	628.2004 Erosion Mat Class I Type B	81,100.000 SY	_____.____	_____.____
0460	628.6510 Soil Stabilizer Type B	20.000 ACRE	_____.____	_____.____
0462	628.7005 Inlet Protection Type A	17.000 EACH	_____.____	_____.____
0464	628.7020 Inlet Protection Type D	209.000 EACH	_____.____	_____.____
0466	628.7504 Temporary Ditch Checks	1,530.000 LF	_____.____	_____.____
0468	628.7515.S Stone Ditch Checks	156.000 CY	_____.____	_____.____
0470	628.7560 Tracking Pads	9.000 EACH	_____.____	_____.____
0472	629.0210 Fertilizer Type B	59.000 CWT	_____.____	_____.____
0474	630.0160 Seeding Mixture No. 60	40.000 LB	_____.____	_____.____
0476	630.0170 Seeding Mixture No. 70	230.000 LB	_____.____	_____.____
0478	630.0200 Seeding Temporary	2,760.000 LB	_____.____	_____.____
0480	630.0500 Seed Water	2,200.000 MGAL	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0482	633.1000 Delineators Barrier Wall	158.000 EACH	_____.____	_____.____
0484	633.5200 Markers Culvert End	69.000 EACH	_____.____	_____.____
0486	634.0618 Posts Wood 4x6-Inch X 18-FT	143.000 EACH	_____.____	_____.____
0488	634.0622 Posts Wood 4x6-Inch X 22-FT	9.000 EACH	_____.____	_____.____
0490	635.0200 Sign Supports Structural Steel HS	11,600.000 LB	_____.____	_____.____
0492	637.1220 Signs Type I Reflective SH	1,775.500 SF	_____.____	_____.____
0494	637.1230 Signs Type I Reflective F	381.250 SF	_____.____	_____.____
0496	637.2210 Signs Type II Reflective H	2,229.260 SF	_____.____	_____.____
0498	637.2230 Signs Type II Reflective F	811.750 SF	_____.____	_____.____
0500	638.2101 Moving Signs Type I	10.000 EACH	_____.____	_____.____
0502	638.2102 Moving Signs Type II	17.000 EACH	_____.____	_____.____
0504	638.2601 Removing Signs Type I	10.000 EACH	_____.____	_____.____
0506	638.2602 Removing Signs Type II	193.000 EACH	_____.____	_____.____
0508	638.3000 Removing Small Sign Supports	152.000 EACH	_____.____	_____.____
0510	638.3100 Removing Structural Steel Sign Supports	28.000 EACH	_____.____	_____.____
0512	643.0300 Traffic Control Drums	242,773.000 DAY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0514	643.0420 Traffic Control Barricades Type III	22,267.000 DAY	_____.____	_____.____
0516	643.0705 Traffic Control Warning Lights Type A	44,660.000 DAY	_____.____	_____.____
0518	643.0715 Traffic Control Warning Lights Type C	48,973.000 DAY	_____.____	_____.____
0520	643.0800 Traffic Control Arrow Boards	1,342.000 DAY	_____.____	_____.____
0522	643.0900 Traffic Control Signs	99,136.000 DAY	_____.____	_____.____
0524	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.____	_____.____
0526	643.0920 Traffic Control Covering Signs Type II	34.000 EACH	_____.____	_____.____
0528	643.1000 Traffic Control Signs Fixed Message	1,473.000 SF	_____.____	_____.____
0530	643.1050 Traffic Control Signs PCMS	474.000 DAY	_____.____	_____.____
0532	643.1100.S Dynamic Late Merge System	410.000 DAY	_____.____	_____.____
0534	643.3165 Temporary Marking Line Paint 6-Inch	253,429.000 LF	_____.____	_____.____
0536	643.3265 Temporary Marking Line Paint 10-Inch	16,066.000 LF	_____.____	_____.____
0538	643.3760 Temporary Marking Raised Pavement Marker Type I	614.000 EACH	_____.____	_____.____
0540	643.4100 Traffic Control Interim Lane Closure	80.000 EACH	_____.____	_____.____
0542	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0544	644.1810 Temporary Pedestrian Barricade	240.000 LF	_____.____	_____.____

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0546	645.0120 Geotextile Type HR	754.000 SY	_____.____	_____.____
0548	645.0130 Geotextile Type R	88.000 SY	_____.____	_____.____
0550	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	570.000 LF	_____.____	_____.____
0552	646.2020 Marking Line Epoxy 6-Inch	2,118.000 LF	_____.____	_____.____
0554	646.2025 Marking Line Grooved Black Epoxy 6-Inch	19,339.000 LF	_____.____	_____.____
0556	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	96,922.000 LF	_____.____	_____.____
0558	646.2050 Marking Line Grooved Permanent Tape 6-Inch	19,778.000 LF	_____.____	_____.____
0560	646.3040 Marking Line Grooved Wet Ref Epoxy 8-Inch	1,603.000 LF	_____.____	_____.____
0562	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	327.000 LF	_____.____	_____.____
0564	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	131.000 LF	_____.____	_____.____
0566	646.4050 Marking Line Grooved Permanent Tape 10-Inch	34,425.000 LF	_____.____	_____.____
0568	646.5020 Marking Arrow Epoxy	44.000 EACH	_____.____	_____.____
0570	646.5120 Marking Word Epoxy	25.000 EACH	_____.____	_____.____
0572	646.5220 Marking Symbol Epoxy	36.000 EACH	_____.____	_____.____

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0574	646.5520 Marking Outfall Epoxy	51.000 EACH	_____.____	_____.____
0576	646.6120 Marking Stop Line Epoxy 18-Inch	643.000 LF	_____.____	_____.____
0578	646.6220 Marking Yield Line Epoxy 18-Inch	157.000 EACH	_____.____	_____.____
0580	646.7120 Marking Diagonal Epoxy 12-Inch	7,393.000 LF	_____.____	_____.____
0582	646.7220 Marking Chevron Epoxy 24-Inch	1,354.000 LF	_____.____	_____.____
0584	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,612.000 LF	_____.____	_____.____
0586	646.8220 Marking Island Nose Epoxy	1.000 EACH	_____.____	_____.____
0588	646.9000 Marking Removal Line 4-Inch	25,831.000 LF	_____.____	_____.____
0590	646.9002 Marking Removal Line 6-Inch	86,158.000 LF	_____.____	_____.____
0592	646.9055 Marking Removal Line Grooved Contrast Permanent Tape 4-Inch	14,592.000 LF	_____.____	_____.____
0594	646.9102 Marking Removal Line 10-Inch	4,700.000 LF	_____.____	_____.____
0596	646.9155 Marking Removal Line Grooved Contrast Permanent Tape 8-Inch	6,493.000 LF	_____.____	_____.____
0598	652.0125 Conduit Rigid Metallic 2-Inch	15.000 LF	_____.____	_____.____
0600	652.0135 Conduit Rigid Metallic 3-Inch	16.000 LF	_____.____	_____.____
0602	652.0215 Conduit Rigid Nonmetallic Schedule 40 1 1/4-Inch	225.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0604	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	3,795.000 LF	_____.____	_____.____
0606	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,166.000 LF	_____.____	_____.____
0608	652.0605 Conduit Special 2-Inch	32.000 LF	_____.____	_____.____
0610	652.0615 Conduit Special 3-Inch	1,344.000 LF	_____.____	_____.____
0612	652.0700.S Install Conduit into Existing Item	8.000 EACH	_____.____	_____.____
0614	652.0800 Conduit Loop Detector	706.000 LF	_____.____	_____.____
0616	653.0135 Pull Boxes Steel 24x36-Inch	4.000 EACH	_____.____	_____.____
0618	653.0140 Pull Boxes Steel 24x42-Inch	19.000 EACH	_____.____	_____.____
0620	653.0905 Removing Pull Boxes	24.000 EACH	_____.____	_____.____
0622	654.0101 Concrete Bases Type 1	5.000 EACH	_____.____	_____.____
0624	654.0105 Concrete Bases Type 5	1.000 EACH	_____.____	_____.____
0626	654.0110 Concrete Bases Type 10	2.000 EACH	_____.____	_____.____
0628	654.0115 Concrete Bases Type F	9.000 EACH	_____.____	_____.____
0630	654.0120 Concrete Bases Type 10-Special	1.000 EACH	_____.____	_____.____
0632	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0634	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.____	_____.____
0636	655.0230 Cable Traffic Signal 5-14 AWG	441.000 LF	_____.____	_____.____
0638	655.0240 Cable Traffic Signal 7-14 AWG	1,185.000 LF	_____.____	_____.____
0640	655.0260 Cable Traffic Signal 12-14 AWG	1,228.000 LF	_____.____	_____.____
0642	655.0515 Electrical Wire Traffic Signals 10 AWG	7,909.000 LF	_____.____	_____.____
0644	655.0525 Electrical Wire Traffic Signals 6 AWG	900.000 LF	_____.____	_____.____
0646	655.0610 Electrical Wire Lighting 12 AWG	3,762.000 LF	_____.____	_____.____
0648	655.0615 Electrical Wire Lighting 10 AWG	60.000 LF	_____.____	_____.____
0650	655.0625 Electrical Wire Lighting 6 AWG	32,665.000 LF	_____.____	_____.____
0652	655.0630 Electrical Wire Lighting 4 AWG	4,400.000 LF	_____.____	_____.____
0654	655.0640 Electrical Wire Lighting 1 AWG	18.000 LF	_____.____	_____.____
0656	655.0700 Loop Detector Lead In Cable	2,158.000 LF	_____.____	_____.____
0658	655.0800 Loop Detector Wire	2,428.000 LF	_____.____	_____.____
0660	656.0201 Electrical Service Meter Breaker Pedestal (location) 0001. IH 41 NB Ramps & CTH EE (W Hampton Ave)	1.000 EACH	_____.____	_____.____
0662	656.0401 Electrical Service Main Lugs Only Meter Pedestal (location) 0001. HL-40-CC	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0664	656.0501 Electrical Service Breaker Disconnect Box (location) 0001. CCTV-40-0041	1.000 EACH	_____.____	_____.____
0666	657.0100 Pedestal Bases	5.000 EACH	_____.____	_____.____
0668	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	6.000 EACH	_____.____	_____.____
0670	657.0375 Poles Type A	2.000 EACH	_____.____	_____.____
0672	657.0381 Poles Type F	9.000 EACH	_____.____	_____.____
0674	657.0420 Traffic Signal Standards Aluminum 13-FT	3.000 EACH	_____.____	_____.____
0676	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.____	_____.____
0678	657.0430 Traffic Signal Standards Aluminum 10-FT	1.000 EACH	_____.____	_____.____
0680	657.0620 Luminaire Arms Single Member 6-Inch Clamp 4-FT	4.000 EACH	_____.____	_____.____
0682	658.0173 Traffic Signal Face 3S 12-Inch	9.000 EACH	_____.____	_____.____
0684	658.0174 Traffic Signal Face 4S 12-Inch	3.000 EACH	_____.____	_____.____
0686	658.0416 Pedestrian Signal Face 16-Inch	4.000 EACH	_____.____	_____.____
0688	658.0500 Pedestrian Push Buttons	4.000 EACH	_____.____	_____.____
0690	658.5070 Signal Mounting Hardware (location) 0001. IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0692	659.1130 Luminaires Utility LED D	22.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0694	659.2230 Lighting Control Cabinets 240/480 30-Inch	1.000 EACH	_____.____	_____.____
0696	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	34.000 EACH	_____.____	_____.____
0698	661.0201 Temporary Traffic Signals for Intersections (location) 0001. IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0700	670.0101 Field System Integrator	1.000 EACH	_____.____	_____.____
0702	670.0201 ITS Documentation	1.000 EACH	_____.____	_____.____
0704	671.0142 Conduit HDPE 4-Duct 2-Inch	4,210.000 LF	_____.____	_____.____
0706	671.0222 Conduit HDPE Directional Bore 2-Duct 2-Inch	215.000 LF	_____.____	_____.____
0708	673.1225.S Install Pole Mounted Cabinet	1.000 EACH	_____.____	_____.____
0710	674.0300 Remove Cable	6,610.000 LF	_____.____	_____.____
0712	674.0400 Reinstall Cable	5,030.000 LF	_____.____	_____.____
0714	675.0300 Install Mounted Controller Microwave Detector Assembly	6.000 EACH	_____.____	_____.____
0716	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0718	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0720	677.9051.S Removing 50-FT Camera Pole	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0722	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	75.000 LF	_____.____	_____.____
0724	678.0100.S Install Overhead Freeway DMS Full Matrix	1.000 EACH	_____.____	_____.____
0726	678.0200 Fiber Optic Splice Enclosure	3.000 EACH	_____.____	_____.____
0728	678.0300 Fiber Optic Splice	221.000 EACH	_____.____	_____.____
0730	678.0400 Fiber Optic Termination	12.000 EACH	_____.____	_____.____
0732	678.0501 Communication System Testing	3.000 EACH	_____.____	_____.____
0734	678.0600 Install Ethernet Switches	2.000 EACH	_____.____	_____.____
0736	690.0250 Sawing Concrete	128,346.000 LF	_____.____	_____.____
0738	715.0502 Incentive Strength Concrete Structures	8,278.000 DOL	1.00000	8,278.00
0740	715.0603 Incentive Strength Concrete Barrier	6,009.000 DOL	1.00000	6,009.00
0742	715.0720 Incentive Compressive Strength Concrete Pavement	2,774.000 DOL	1.00000	2,774.00
0744	740.0440 Incentive IRI Ride	43,062.000 DOL	1.00000	43,062.00
0746	801.0117 Railroad Flagging Reimbursement	235,750.000 DOL	1.00000	235,750.00
0748	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	7,000.000 HRS	5.00000	35,000.00
0750	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	18,240.000 HRS	5.00000	91,200.00

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0752	SPV.0035 Special 0001. Backfill Slurry	45.000 CY	_____.____	_____.____
0754	SPV.0035 Special 0002. Base Patching Concrete SHES Special	6,453.000 CY	_____.____	_____.____
0756	SPV.0055 Special 0001. Incentive Density PWL	30,720.000 DOL	1.00000	30,720.00
0758	SPV.0055 Special 0002. Incentive Air Voids	30,720.000 DOL	1.00000	30,720.00
0760	SPV.0055 Special 0003. HMA Pavement LJD, Core Only Project	15,563.000 DOL	1.00000	15,563.00
0762	SPV.0060 Special 0001. Baseline CPM Progress Schedule	1.000 EACH	_____.____	_____.____
0764	SPV.0060 Special 0002. Monthly CPM Progress Schedule Updates	15.000 EACH	_____.____	_____.____
0766	SPV.0060 Special 0003. Concrete Barrier Type S42 End Anchor	24.000 EACH	_____.____	_____.____
0768	SPV.0060 Special 0004. Fastening Sewer Access Covers	78.000 EACH	_____.____	_____.____
0770	SPV.0060 Special 0005. Traffic Control Close-Open Freeway Entrance Ramp	66.000 EACH	_____.____	_____.____
0772	SPV.0060 Special 0006. Traffic Control Full Freeway Closure	18.000 EACH	_____.____	_____.____
0774	SPV.0060 Special 0007. Traffic Control Local Road Lane Closures	8.000 EACH	_____.____	_____.____
0776	SPV.0060 Special 0008. Survey Contract 1100-20-70/71	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0778	SPV.0060 Special 0009. Mobilizations Emergency Pavement Repair	10.000 EACH	_____.____	_____.____
0780	SPV.0060 Special 0010. Marking Median Inlets Epoxy 6-Inch	107.000 EACH	_____.____	_____.____
0782	SPV.0060 Special 0011. Concrete Barrier Type S42 Light Pole Base	3.000 EACH	_____.____	_____.____
0784	SPV.0060 Special 0012. Concrete Barrier Type S42A Light Pole Base	8.000 EACH	_____.____	_____.____
0786	SPV.0060 Special 0013. Concrete Barrier South Transition	1.000 EACH	_____.____	_____.____
0788	SPV.0060 Special 0014. Concrete Barrier North Transition	1.000 EACH	_____.____	_____.____
0790	SPV.0060 Special 0015. Utility Line Opening	35.000 EACH	_____.____	_____.____
0792	SPV.0060 Special 0016. Field Office Special	1.000 EACH	_____.____	_____.____
0794	SPV.0060 Special 0017. Drainpipe Exploration	1.000 EACH	_____.____	_____.____
0796	SPV.0060 Special 0018. Emergency Inlet Repair	10.000 EACH	_____.____	_____.____
0798	SPV.0060 Special 0019. Emergency Response to Traffic Involving Concrete Barrier Temporary	10.000 EACH	_____.____	_____.____
0800	SPV.0060 Special 0020. Emergency Response to Traffic Involving Crash Cushion	10.000 EACH	_____.____	_____.____
0802	SPV.0060 Special 1001. Poles Wood 60-FT	1.000 EACH	_____.____	_____.____
0804	SPV.0060 Special 1002. Wood Pole Lighting 60-FT	8.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0806	SPV.0060 Special 1003. Luminaires Utility HPS 1000 Watts Floodlight	8.000 EACH	_____.____	_____.____
0808	SPV.0060 Special 1004. Concrete Bases Type B	2.000 EACH	_____.____	_____.____
0810	SPV.0060 Special 1005. Luminaire Arms Single Member 4-Inch Clamp 4-FT	18.000 EACH	_____.____	_____.____
0812	SPV.0060 Special 1006. Maintenance of Lighting System	2.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 1007. Lighting System Integrator	2.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 1008. Lighting System Survey	2.000 EACH	_____.____	_____.____
0818	SPV.0060 Special 2000. Removing Overhead Freeway DMS	1.000 EACH	_____.____	_____.____
0820	SPV.0060 Special 2001. Removing Controller Cabinet	2.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 2002. Removing Controller Cabinet Base	2.000 EACH	_____.____	_____.____
0824	SPV.0060 Special 2003. Ground Rod	3.000 EACH	_____.____	_____.____
0826	SPV.0060 Special 2004. Removing Microwave Detector	1.000 EACH	_____.____	_____.____
0828	SPV.0060 Special 2005. Removing Pole	2.000 EACH	_____.____	_____.____
0830	SPV.0060 Special 2006. Install Salvaged Pole	1.000 EACH	_____.____	_____.____
0832	SPV.0060 Special 3000. Install Poles Type 9	2.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0834	SPV.0060 Special 3001. Install Poles Type 9 Special	1.000 EACH	_____.____	_____.____
0836	SPV.0060 Special 3002. Install Monotube Arms 30-FT	2.000 EACH	_____.____	_____.____
0838	SPV.0060 Special 3003. Install Monotube Arms 45-FT TYPE 9/10 Spec Pole	1.000 EACH	_____.____	_____.____
0840	SPV.0060 Special 3004. Trnspt & Install Stat Furn Tra Si Ca (IH 41 NB Ram & CTH EE W Hampton Ave)	1.000 EACH	_____.____	_____.____
0842	SPV.0060 Special 3005. Temp Non-Interse Det Sys For Int (IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0844	SPV.0060 Special 3006. Trnspt & Install State Furn Rad DE(IH 41 NB Ramps & CTH EE W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0846	SPV.0060 Special 3007. Trnspr Traffic Sig & Int Light Mat (IH 41 NB Ramps & CTH EE W Hampton Ave)	1.000 EACH	_____.____	_____.____
0848	SPV.0060 Special 3008. Install Fiber Optic Communications in Cabinet IH 41 NB Ramps and CTH EE	1.000 EACH	_____.____	_____.____
0850	SPV.0060 Special 4000. Embedded Galvanic Anodes	385.000 EACH	_____.____	_____.____
0852	SPV.0060 Special 4010. Micropile Verification Load Test	1.000 EACH	_____.____	_____.____
0854	SPV.0060 Special 4011. Micropile Proof Load Test	4.000 EACH	_____.____	_____.____
0856	SPV.0060 Special 4030. Vegetation Removal B-40-358	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0858	SPV.0060 Special 4031. Vegetation Removial B-40-359	1.000 EACH	_____.____	_____.____
0860	SPV.0060 Special 4040. Strapping C-40-47	3.000 EACH	_____.____	_____.____
0862	SPV.0060 Special 4060. Cleaning and Painting Bearings	14.000 EACH	_____.____	_____.____
0864	SPV.0060 Special 4070. Pier Widening Access	1.000 EACH	_____.____	_____.____
0866	SPV.0060 Special 4080. Resetting Bearings B-40-358	2.000 EACH	_____.____	_____.____
0868	SPV.0060 Special 4500. Tension Anchor Rods	16.000 EACH	_____.____	_____.____
0870	SPV.0060 Special 4501. Remove Catwalk	6.000 EACH	_____.____	_____.____
0872	SPV.0060 Special 4502. Install ID Plaque	2.000 EACH	_____.____	_____.____
0874	SPV.0060 Special 4503. Secure/Replace Handhole Cover	2.000 EACH	_____.____	_____.____
0876	SPV.0060 Special 8000. Reconnect Storm Sewer	101.000 EACH	_____.____	_____.____
0878	SPV.0060 Special 8001. Temporary Storm Sewer Plug	9.000 EACH	_____.____	_____.____
0880	SPV.0060 Special 8002. Bulkhead Pipe	2.000 EACH	_____.____	_____.____
0882	SPV.0085 Special 0001. Native Pollinator Seed Mixture No. 90A	146.000 LB	_____.____	_____.____
0884	SPV.0090 Special 0001. Concrete Barrier Double Faced	333.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0886	SPV.0090 Special 0002. Pipe Underdrain 6-Inch Special	3,352.000 LF	_____.____	_____.____
0888	SPV.0090 Special 1001. Cable Aerial Aluminum 6 AWG Triplex	4,410.000 LF	_____.____	_____.____
0890	SPV.0090 Special 2000. Outdoor Rated Network Cable	820.000 LF	_____.____	_____.____
0892	SPV.0090 Special 3000. Fiber Optic Warning Tape	499.000 LF	_____.____	_____.____
0894	SPV.0090 Special 4000. 9.625-Inch Micropile Foundation	4,569.000 LF	_____.____	_____.____
0896	SPV.0090 Special 8000. Cleaning Storm Sewer	1,000.000 LF	_____.____	_____.____
0898	SPV.0165 Special 4000. Removing Loose Concrete	764.000 SF	_____.____	_____.____
0900	SPV.0165 Special 4010. Temporary Shoring Railroad	650.000 SF	_____.____	_____.____
0902	SPV.0165 Special 4501. Repair Galavnized Coating	3.000 SF	_____.____	_____.____
0904	SPV.0180 Special 0002. High Friction Surface Treatment	13,975.000 SY	_____.____	_____.____
0906	SPV.0180 Special 0003. Excavation of Phragmites Contaminated Soil	100.000 SY	_____.____	_____.____
0908	SPV.0180 Special 0004. Herbicide Application	100.000 SY	_____.____	_____.____
0910	SPV.0180 Special 4000. Polyester Polymer Concrete Overlay	10,452.000 SY	_____.____	_____.____
0912	SPV.0180 Special 4001. Abutment Seat Cleaning and Sealing	134.000 SY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0914	SPV.0180 Special 4010. Grouting Existing Riprap	56.000 SY	_____.____	_____.____
0916	SPV.0195 Special 0001. HMA Longitudinal Joint Repair	362.000 TON	_____.____	_____.____
0918	SPV.0195 Special 4000. Excavation, Hauling, and Disposal of Solid Waste Soil	194.000 TON	_____.____	_____.____
	Section: 0001		**Total:**	_____.____
			Total Bid:	**_____.____**

PLEASE ATTACH ADDENDA HERE

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

October 1, 2024

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of October 8, 2024

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 01 – 06, 08, 09, and 12 – 19; and WI 15 Heavy Davis Bacon Prevailing Wage Rates that are included in proposal 06. These wage rates are effective for all proposals they are included in in the October 8, 2024 letting. The updated wage rates are dated September 6, 2024 (WI 10) and September 27, 2024 (WI 15); and are effective on or after September 16, 2024 (WI 10) and October 7, 2024 (WI 15).

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractors.

Sincerely,

Mike Coleman
Proposal Development Specialist
Proposal Management Section

"General Decision Number: WI20240010 09/06/2024

Superseded General Decision Number: WI20230010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024

1	01/26/2024
2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/24/2024
6	06/21/2024
7	06/28/2024
8	07/05/2024
9	08/02/2024
10	08/23/2024
11	09/06/2024

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 47.10	25.16

BRWI0002-005 06/01/2023

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0004-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.50	26.96

BRWI0006-002 06/01/2023

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.08	25.98

BRWI0007-002 06/01/2023

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.95	26.80

BRWI0008-002 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.96	25.67

BRWI0011-002 06/01/2023

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0019-002 06/01/2023

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 39.32	26.74

BRWI0034-002 06/01/2023

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

CARP0068-011 05/02/2022

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

CARPENTER.....$ 41.91 29.72

CARP0310-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1056-002 06/01/2024

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, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

ELEC0014-002 05/26/2024

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, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes

Electricians:.....$ 42.73 23.99

ELEC0014-007 05/26/2024

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	$ 30.27	19.11

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

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

	Rates	Fringes
ELECTRICIAN.....	$ 36.14	29.75%+10.26

ELEC0159-003 05/26/2024

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

	Rates	Fringes
ELECTRICIAN.....	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		

Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 46.23	69.19%

ELEC0388-002 06/01/2023

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

	Rates	Fringes
Electricians:	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 46.70	25.02

ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 49.48	27.34

ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 42.77	24.66

ELEC0494-013 05/26/2024

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications Installer	$ 36.03	18.87

Technician.....$ 36.03 18.87

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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* ELEC0577-003 05/26/2024

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

	Rates	Fringes
Electricians	$ 40.00	22.69

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians	$ 43.65	25.95%+12.26

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

ENGI0139-005 06/01/2024

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 46.37	28.80
Group 2	$ 45.87	28.80

Group 3	$ 44.77	28.80
Group 4	$ 44.51	28.80
Group 5	$ 44.22	28.80
Group 6	$ 38.32	28.80

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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.

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.

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; bituminious 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 machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

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

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

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

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

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

IRON0498-005 06/01/2023

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 45.18	47.08

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 43.00	34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.14	34.00

LABO0113-002 06/03/2024

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.61	25.01
Group 2	$ 35.76	25.01
Group 3	$ 35.96	25.01
Group 4	$ 36.11	25.01
Group 5	$ 36.26	25.01
Group 6	$ 32.10	25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/03/2024

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.86	25.01
Group 2	$ 34.96	25.01
Group 3	$ 35.01	25.01
Group 4	$ 35.21	25.01
Group 5	$ 35.06	25.01

Group 6.....$ 31.95 25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

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* LABO0113-011 06/03/2024

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.67	25.01
Group 2	$ 34.82	25.01
Group 3	$ 35.02	25.01
Group 4	$ 34.99	25.01
Group 5	$ 35.32	25.01
Group 6	$ 31.81	25.01

LABORERS CLASSIFICATIONS:

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/03/2024

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. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 40.57	19.45
Group 2	$ 40.67	19.45
Group 3	$ 40.72	19.45
Group 4	$ 40.92	19.45
Group 5	$ 40.77	19.45
Group 6	$ 37.20	19.45

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/03/2024

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 40.85	19.45
Group 2	$ 40.95	19.45
Group 3	$ 41.00	19.45
Group 4	$ 41.20	19.45
Group 5	$ 41.05	19.45
Group 6	$ 37.20	19.45

LABORERS CLASSIFICATIONS:

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; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/06/2024

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 36.16	26.27
Spray, Sandblast, Steel	$ 36.76	26.27
Repaint:		
Brush, Roller	$ 34.66	26.27
Spray, Sandblast, Steel	$ 35.26	26.27

PAIN0108-002 06/01/2024

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 42.04	22.95
Spray & Sandblast	$ 43.04	22.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes

PAINTER.....$ 22.03 12.45

PAIN0781-002 06/01/2024

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 41.39	24.92
Brush	$ 40.64	24.92
Spray & Sandblast	$ 41.39	24.92

PAIN0802-002 06/01/2024

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 36.35	20.87

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2024

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

	Rates	Fringes
PAINTER	$ 36.35	20.87

PAIN0934-001 06/01/2024

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 38.67	26.32
Spray	$ 39.67	26.32
Structural Steel	$ 38.82	26.32

PAIN1011-002 06/02/2024

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 29.95	15.89

PLAS0599-002 06/01/2023

	Rates	Fringes

CEMENT MASON/CONCRETE FINISHER

Area A	$ 45.17	27.27
Area B	$ 39.97	25.02
Area C	$ 40.40	25.25
Area D	$ 41.16	24.49
Area E	$ 40.50	25.14
Area F	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: 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, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 37.57	27.41
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 37.72	27.41

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.

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 classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of 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. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those

classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was 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. 01/03/2024 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:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write 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 the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by 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

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

"General Decision Number: WI20240015 09/27/2024

Superseded General Decision Number: WI20230015

State: Wisconsin

Construction Type: Heavy

Counties: Wisconsin Statewide.

HEAVY CONSTRUCTION PROJECTS (Excluding Tunnel, Sewer, and Water Lines).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024
1	01/26/2024

2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/10/2024
6	05/24/2024
7	06/21/2024
8	06/28/2024
9	07/05/2024
10	08/02/2024
11	08/23/2024
12	09/06/2024
13	09/27/2024

BOIL0107-001 01/01/2021

	Rates	Fringes
BOILERMAKER		
Boilermaker	$ 39.52	31.50
Small Boiler Repair (under 25,000 lbs/hr)	$ 26.91	16.00

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 47.10	25.16

BRWI0002-005 06/01/2023

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0004-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.50	26.96

BRWI0006-002 06/01/2023

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.08	25.98

BRWI0007-002 06/01/2023

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.95	26.80

BRWI0008-002 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.96	25.67

BRWI0009-001 06/01/2023

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0011-002 06/01/2023

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0013-002 06/01/2023

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

BRWI0019-002 06/01/2023

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 39.32 26.74

BRWI0021-002 06/01/2023

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.49	27.24

BRWI0034-002 06/01/2023

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

CARP0068-011 05/02/2022

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
CARPENTER	$ 41.91	29.72

CARP0310-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1056-002 06/01/2024

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, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/03/2024

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

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

CARP2337-010 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
MILLWRIGHT	$ 42.31	32.21

ELEC0014-002 05/26/2024

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, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 42.73	23.99

ELEC0014-007 05/26/2024

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 30.27	19.11

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

ELEC0159-003 05/26/2024

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

	Rates	Fringes
ELECTRICIAN	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 46.23	69.19%

ELEC0388-002 06/01/2023

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

	Rates	Fringes
Electricians:	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 46.70	25.02

ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 49.48	27.34

ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 42.77	24.66

ELEC0494-013 05/26/2024

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer	$ 36.03	18.87
Technician	$ 36.03	18.87

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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ELEC0577-003 05/26/2024

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

	Rates	Fringes
Electricians:	$ 40.00	22.69

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

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* ENGI0139-001 06/01/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 52.66	27.60
Group 2	$ 52.16	27.60
Group 3	$ 51.66	27.60
Group 4	$ 50.37	27.60
Group 5	$ 46.39	27.60
Group 6	$ 41.24	27.60

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or w/o attachments with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Self-Erecting Tower Cranes

over 4000 lbs lifting capacity; All Cranes with Boom Dollies; Boring Machines (directional); Master Mechanic. $0.50 additional per hour per 100 tons or 100 ft of boom over 200 ft or lifting capacity of crane over 200 tons to a maximum of 300 tons or 300 ft. Thereafter an increase of $0.01 per ft or ton, whichever is greater.

GROUP 2: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; or Cranes, Tower Cranes Portable Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leadsand/or jib lengths measuring 175 feet or less; Backhoes (excavators) 130,000 lbs and over; Caisson Rigs; Pile Drivers; Boring Machines (vertical or horizontal), Versi-Lift, Tri-Lift, Gantry 20,000 lbs & over.

GROUP 3: Backhoe (excavator) under 130,000 lbs;Self-erecting Tower Crane 4000 lbs & under lifting capacity;Traveling Crane (bridge type); Skid Rigs; Dredge Operator; Mechanic; Concrete Paver (over 27E); Concrete Spreader and Distributor; Forklift/ Telehandler (machinery- moving / steel erection); Hydro Blaster, 10,000 psi and over

GROUP 4: Material Hoists; Stack Hoists; Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 5 tons or under (tractor or truck mounted); Hoist (tuggers 5 tons & over); Hydro-Excavators/Daylighters; Concrete Pumps Rotec type Conveyors; Tractor/Bulldozer/End Loader (over 40 hp); Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Rotary Drill Operator and Blaster; Percussion Drill Operator; Air Track Drill and/or Hammers; Gantrys (under 20,000 lbs); Tencher (wheel type or chain type having 8 inch or larger bucket); Milling Machine; Off-Road Material Haulers.

GROUP 5: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machines (road type); Rubber Tired Roller; Concrete Batch Hopper; Concrete Conveyor Systems; Grout Pumps; Concrete Mixers (14S or over); Screw Type Pumps and Gypsum Pumps; Tractor, Bulldozer, End Loader (under 40 hp); Trencher (chain type, bucket under 8 inch); Industrial Locomotives; Rollers under 5 tons; Stump Grinder/Chipper (Large); Timber Equipment; Firemen (pile drivers and derricks); Personnel Hoist, Telehandler over 8000 lbs; Robotic Tool Carrier with or without attachments

GROUP 6: Tampers - Compactors (riding type); Assistant Engineer; A-Frames and Winch Trucks; Concrete Auto Breaker; Hydrohammers (small); Brooms and Sweepers; Hoist (tuggers under 5 tons); Boats (Tug, Safety, Work Barges, Launch); Shouldering Machine Operator; Prestress Machines; Screed Operator; Stone Crushers and Screening Plants; Screed Operators (milling machine), Farm or Industrial Tractor Mounted Equipment; Post Hole Digger; Fireman (asphalt plants); Air Compressors over 400 CFM; Generators, over 150 KW; Augers (vertical and horizontal); Air, Electric, Hydraulic Jacks (slipform); Skid Steer Loaders (with or without attachments); Boiler Operators (temporary heat); Refrigeration Plant/Freeze Machines; Power Pack Vibratory/Ultra Sound Drivers and Extractors; Welding Machines; Heaters (mechanical); Pumps; Winches (small electric); Oiler and Greaser; Rotary Drill Tender; Conveyor; Forklifts/Telehandler 8000 lbs & under;

Elevators: Automatic Hoists; Pumps (well points); Combination Small Equipment Operators

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ENGI0139-003 06/03/2024

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 48.78	27.14
Group 2	$ 47.53	27.14
Group 3	$ 44.23	27.14
Group 4	$ 43.70	27.14
Group 5	$ 41.63	27.14
Group 6	$ 40.10	27.14

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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.

GROUP 2: Backhoes (Excavators) 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

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.

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.

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 Sweeeprs; 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

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/Freese 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

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IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

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

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 43.00	34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.14	34.00

LABO0113-002 06/03/2024

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.61	25.01
Group 2	$ 35.76	25.01
Group 3	$ 35.96	25.01
Group 4	$ 36.11	25.01
Group 5	$ 36.26	25.01
Group 6	$ 32.10	25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/03/2024

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes

LABORER

Group 1	$ 34.86	25.01
Group 2	$ 34.96	25.01
Group 3	$ 35.01	25.01
Group 4	$ 35.21	25.01
Group 5	$ 35.06	25.01
Group 6	$ 31.95	25.01

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/03/2024

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.67	25.01
Group 2	$ 34.82	25.01
Group 3	$ 35.02	25.01
Group 4	$ 34.99	25.01
Group 5	$ 35.32	25.01
Group 6	$ 31.81	25.01

LABORERS CLASSIFICATIONS:

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

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/03/2024

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. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 40.57	19.45
Group 2	$ 40.67	19.45
Group 3	$ 40.72	19.45
Group 4	$ 40.92	19.45
Group 5	$ 40.77	19.45
Group 6	$ 37.20	19.45

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/03/2024

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 40.85	19.45
Group 2	$ 40.95	19.45

Group 3	$ 41.00	19.45
Group 4	$ 41.20	19.45
Group 5	$ 41.05	19.45
Group 6	$ 37.20	19.45

LABORERS CLASSIFICATIONS:

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; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/06/2024

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 36.16	26.27
Spray, Sandblast, Steel	$ 36.76	26.27
Repaint:		
Brush, Roller	$ 34.66	26.27
Spray, Sandblast, Steel	$ 35.26	26.27

PAIN0108-002 06/01/2024

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 42.04	22.95
Spray & Sandblast	$ 43.04	22.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2024

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 41.39	24.92
Brush	$ 40.64	24.92
Spray & Sandblast	$ 41.39	24.92

PAIN0802-002 06/01/2024

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 36.35	20.87

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2024

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

	Rates	Fringes
PAINTER	$ 36.35	20.87

PAIN0934-001 06/01/2024

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 38.67	26.32
Spray	$ 39.67	26.32
Structural Steel	$ 38.82	26.32

PAIN1011-002 06/02/2024

FLORENCE COUNTY

	Rates	Fringes

Painters:.....$ 29.95 15.89

PLAS0599-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A.....	$ 45.17	27.27
Area B.....	$ 39.97	25.02
Area C.....	$ 40.40	25.25
Area D.....	$ 41.16	24.49
Area E.....	$ 40.50	25.14
Area F.....	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: 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, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

PLUM0011-003 05/06/2024

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
PLUMBER.....	$ 49.32	27.18

PLUM0075-002 06/01/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
PLUMBER.....	$ 57.60	26.90

PLUM0075-004 06/01/2024

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes

PLUMBER.....$ 57.60 26.90

PLUM0075-009 06/01/2024

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PLUMBER	$ 58.12	26.34

PLUM0111-007 06/03/2024

MARINETTE COUNTY (Niagara only)

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 43.90	27.53

PLUM0118-002 06/24/2024

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
Plumber and Steamfitter	$ 54.60	26.12

PLUM0400-003 05/31/2024

ADAMS,BROWN, CALUMET, DODGE (except Watertown), DOOR, FOND DU LAC, GREEN LAKE,KEWAUNEE, MANITOWOC, MARINETTE (except Niagara), MENOMINEE, OCONTO, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 49.00	21.84

PLUM0434-002 06/16/2024

BARON, BUFFALO, CHIPPEWA, CLARK, CRAWFORD, DUNN, EAU CLAIRE, FLORENCE, FOREST, GRANT, JACKSON, JUNEAU, LA CROSSE, LANGLADE, LINCOLN, MARATHON, MONROE, ONEIDA, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RUSK, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILAS, AND WOOD COUNTIES

	Rates	Fringes
PIPEFITTER	$ 49.24	24.38

PLUM0601-003 06/03/2024

Zone 1

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, MILWAUKEE, OZAUKEE, ROCK, WASHINGTON AND WAUKESHA COUNTIES

	Rates	Fringes
PIPEFITTER	$ 55.67	31.19

PLUM0601-009 06/03/2024

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PIPEFITTER	$ 56.88	30.01

TEAM0039-002 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axle Trucks	$ 37.57	27.41
3 or more axles; Euclids or Dumptor, Articulated Truck, Mechanic	$ 37.72	27.41

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* SUWI2011-001 11/16/2011

	Rates	Fringes
WELL DRILLER	$ 16.52 **	

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 ($17.20) or 13658 ($12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

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.

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 classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of 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. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was 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. 01/03/2024 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:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write 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 the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by 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

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

September 12, 2024

NOTICE TO ALL CONTRACTORS:

Proposal #06:

1100-20-70, WISC 2025004
IH 41 Zoo Freeway
Burleigh St to Capitol Dr
IH 41
Milwaukee County

1100-20-71, WISC 2025005
IH 41 Zoo Freeway
Capitol Dr to Silver Spring Dr
IH 41
Milwaukee County

Letting of October 8, 2024

This is Addendum No. 01, which provides for the following:

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
637.2210	Signs Type II Reflective H	SF	2229.26	45.00	2274.26

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
1057	Added fire hydrant sign details and locations
1058	Added fire hydrant sign details and locations
1060	Added fire hydrant sign details and locations
1352	Added fire hydrant sign quantities

Schedule of Items
Attached, dated September 16, 2024, are the revised Schedule of Items Page 18.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 1057, 1058, 1060, and 1352.

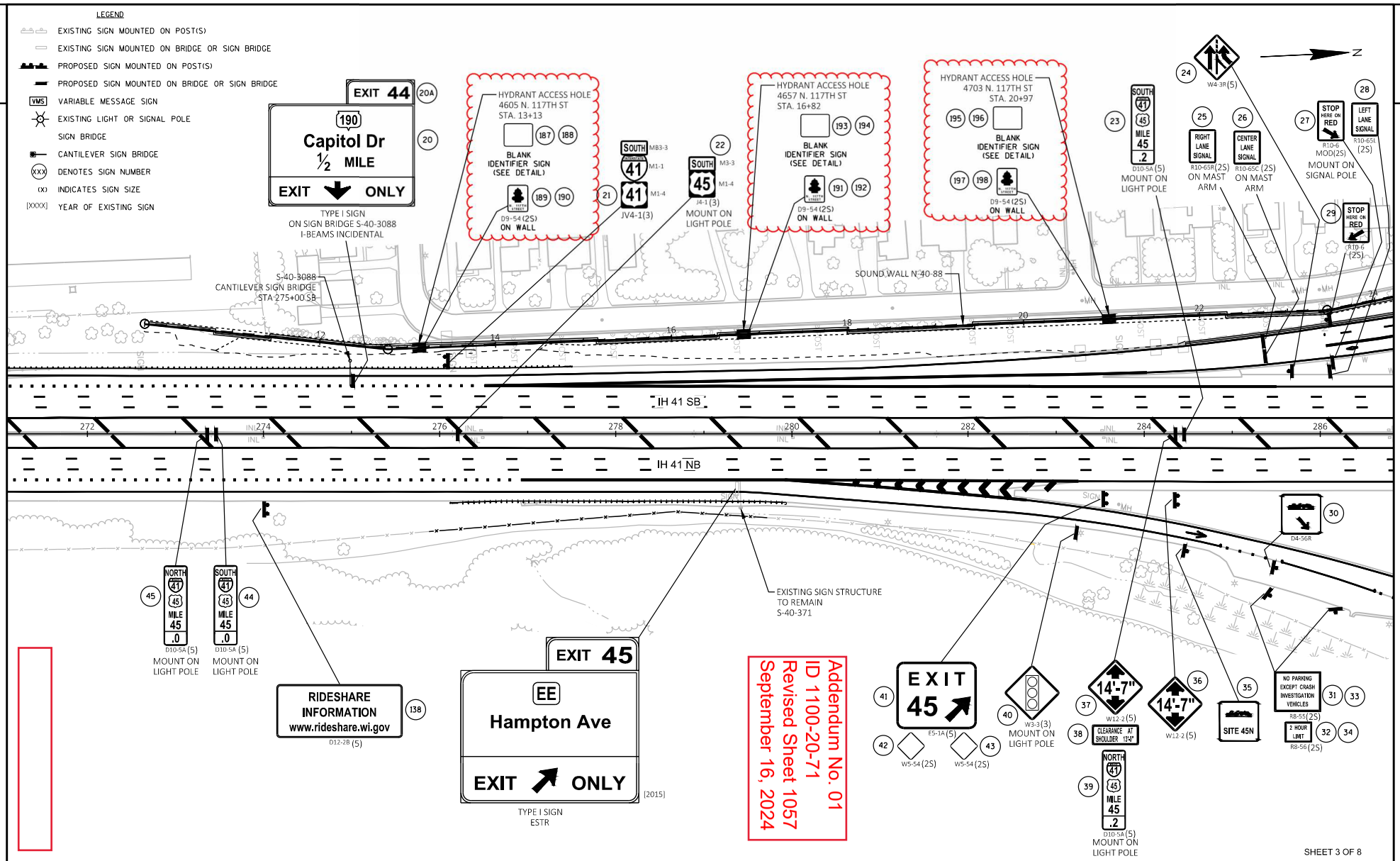
The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM



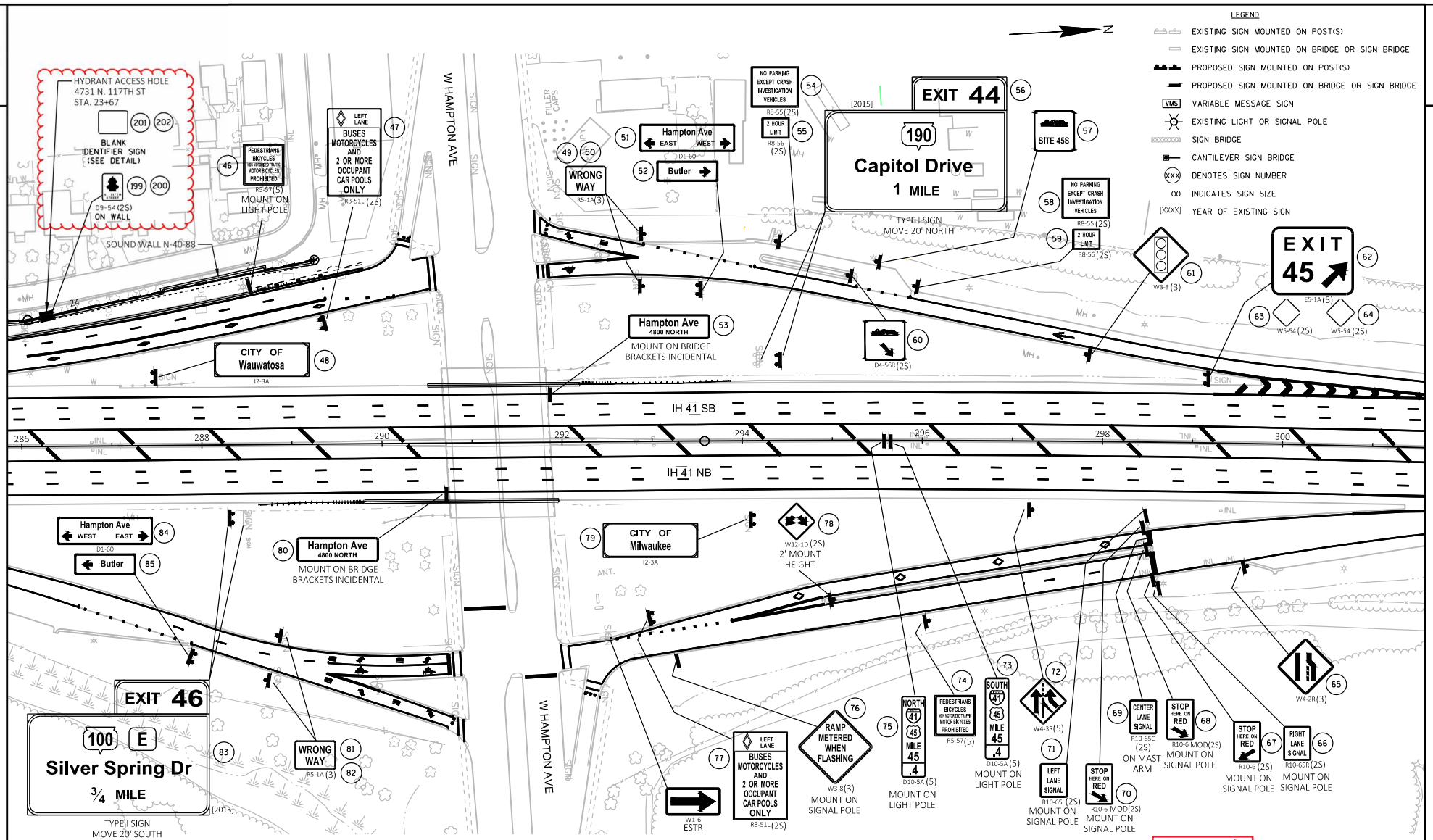
SHEET 3 OF 8

PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 1057	E

FILE NAME : N:\PDS\C3D\CAD\11002000\71\SIGN\023201_PS_1100-20-71_20.DWG
LAYOUT NAME - PSht-03

PLOT DATE : 11/21/2022 6:42 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

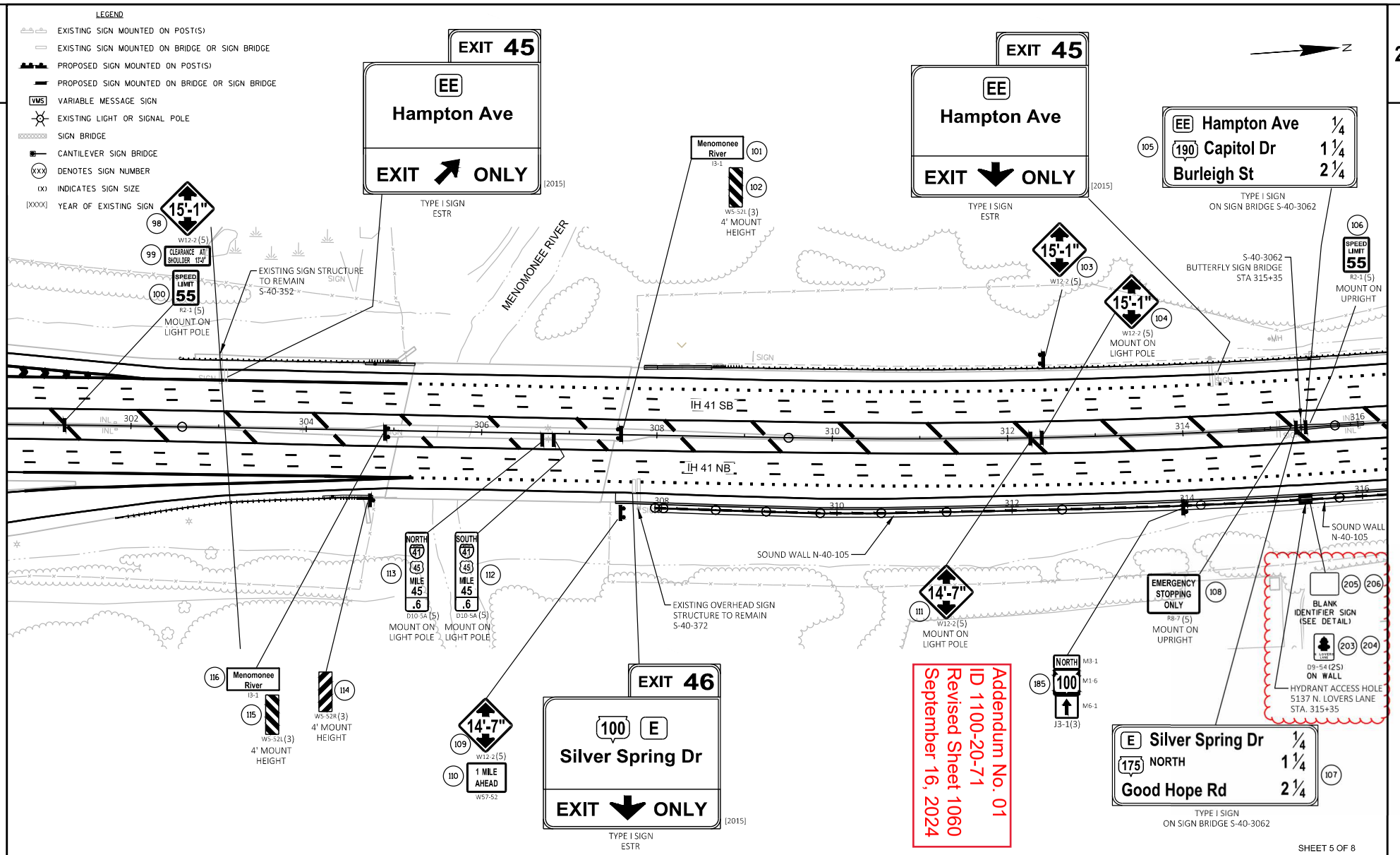


Addendum No. 01
ID 1100-20-71
Revised Sheet 1058
September 16, 2024

SHEET 4 OF 8

PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 1058	E

FILE NAME : N:\PDS\C3D\CAD\11002000\71\SIGN\023201_PS_1100-20-71_20.DWG
LAYOUT NAME - PSht-04
PLOT DATE : 11/21/2022 6:43 AM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT S
WISDOT/CADDS SHEET 42



PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 1060	E

FILE NAME : N:\PDS\C3D\CAD\11002000\71\SIGN\023201_PS_1100-20-71_20.DWG
LAYOUT NAME - PSht-05
PLOT DATE : 11/21/2022 6:45 AM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

Addendum No. 01
ID 1100-20-71
Revised Sheet 1352
September 16, 2024

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0622 POSTS WOOD 4"X 6"X22' [EA]	638.2102 MOVING SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	637.1230 SIGNS TYPE I REFLC F [SF]	638.3100* REMOVING STR STEEL SIGN SUPPORTS [EA]	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	531.1100 CONCRETE MASONRY ANCILLARY STRUCTURES TYPE NS [CY]	531.1140 STEEL REINF HS ANCILLARY STRUCTURES TYPE NS [LBS]	531.2024 DRILLING SHAFT 24-INCH [EST.LF]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
177	R3-5L(2S)	II	--	42 x 48	14.000	--	--	--	--	--	INSTALL ON S-40-277	-- x --	--	--	--	--	--	--	--	--	--
178	R3-6L(2S)	II	--	42 x 48	14.000	--	--	--	--	--	INSTALL ON S-40-277	-- x --	--	--	--	--	--	--	--	--	--
179	R3-5R(2S)	II	--	42 x 48	14.000	--	--	--	--	--	INSTALL ON S-40-277	-- x --	--	--	--	--	--	--	--	--	--
180	D10-5A(5)	II	NORTH-41-45-46.4	21 x 72	10.500	--	--	--	--	--	MOUNT ON LIGHT POLE	-- x --	--	--	--	--	--	--	--	--	--
181	D10-5A(5)	II	SOUTH-41-45-46.4	21 x 72	10.500	--	--	--	--	--	MOUNT ON LIGHT POLE	-- x --	--	--	--	--	--	--	--	--	--
182	W5-52L(3)	II	--	18 x 54	--	6.750	1	--	--	--	4 FT MOUNT HEIGHT	-- x --	--	--	--	--	--	--	--	--	--
183	W5-52R(3)	II	--	18 x 54	--	6.750	1	--	--	--	4 FT MOUNT HEIGHT	-- x --	--	--	--	--	--	--	--	--	--
184	W5-52L(3)	II	--	18 x 54	--	6.750	1	--	--	--	4 FT MOUNT HEIGHT	-- x --	--	--	--	--	--	--	--	--	--
185	NOT USED	--	--	-- x --	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--
186	J3-1(3)	II	--	36 x 84	21.000	--	2	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--
	M3-3		SOUTH	36 x 18																	
	M1-6		STH 100	36 x 36																	
	M6-2		--	36 x 30																	
187	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
188	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
189	D9-54(2S)	II	4605 N. 117TH ST	18 x 24	3.000						ON WALL RESIDENT SIDE- WALL N-40-21										
190	D9-54(2S)	II	4605 N. 117TH ST	18 X 24	3.000						ON WALL RAMP SIDE. WALL N-40-21										
191	D9-54(2S)	II	4657 N. 117TH ST	18 X 24	3.000						ON WALL RESIDENT SIDE- WALL N-40-21										
192	D9-54(2S)	II	4657 N. 117TH ST	18 X 24	3.000						ON WALL RAMP SIDE. WALL N-40-21										
193	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
194	NONE	II	BLANK	18 X 6	1.500						ON WALL SEE DETAIL BLUE HI SHEETING										
195	NONE	II	BLANK	18 X 6	1.500						ON WALL SEE DETAIL BLUE HI SHEETING										
196	NONE	II	BLANK	18 X 6	1.500						ON WALL SEE DETAIL BLUE HI SHEETING										
197	D9-54(2S)	II	4703 N .117TH ST	18 X 24	3.000						ON WALL RESIDENT SIDE- WALL N-40-21										
198	D9-54(2S)	II	4703 N. 117TH ST	18 X 24	3.000						ON WALL RAMP SIDE. WALL N-40-21										
199	D9-54(2S)	II	4731 N. 117TH ST	18 X 24	3.000						ON WALL RESIDENT SIDE- WALL N-40-21										
200	D9-54(2S)	II	4731 N. 117TH ST	18 X 24	3.000						ON WALL RAMP SIDE. WALL N-40-21										
201	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
202	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
203	D9-54(2S)	II	5137 N. LOVERS LANE	18 X 24	3.000						ON WALL RESIDENT SIDE N-40-105										
204	D9-54(2S)	II	5137 N. LOVERS LANE	18 X 24	3.000						ON WALL FREEWAY SIDE N-40-105										
205	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
206	NONE	II	BLANK	18 X 6	1.500						ON WALL. SEE DETAIL BLUE HI SHEETING										
--	--	--	--	-- x --	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--	--	--
TOTALS					1458.250	495.750	91	7	12				956.000	66.000	14*	7		14	1874	117	7800

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	633.1000 Delineators Barrier Wall	158.000 EACH	_____.____	_____.____
0484	633.5200 Markers Culvert End	69.000 EACH	_____.____	_____.____
0486	634.0618 Posts Wood 4x6-Inch X 18-FT	143.000 EACH	_____.____	_____.____
0488	634.0622 Posts Wood 4x6-Inch X 22-FT	9.000 EACH	_____.____	_____.____
0490	635.0200 Sign Supports Structural Steel HS	11,600.000 LB	_____.____	_____.____
0492	637.1220 Signs Type I Reflective SH	1,775.500 SF	_____.____	_____.____
0494	637.1230 Signs Type I Reflective F	381.250 SF	_____.____	_____.____
0496	637.2210 Signs Type II Reflective H	2,274.260 SF	_____.____	_____.____
0498	637.2230 Signs Type II Reflective F	811.750 SF	_____.____	_____.____
0500	638.2101 Moving Signs Type I	10.000 EACH	_____.____	_____.____
0502	638.2102 Moving Signs Type II	17.000 EACH	_____.____	_____.____
0504	638.2601 Removing Signs Type I	10.000 EACH	_____.____	_____.____
0506	638.2602 Removing Signs Type II	193.000 EACH	_____.____	_____.____
0508	638.3000 Removing Small Sign Supports	152.000 EACH	_____.____	_____.____
0510	638.3100 Removing Structural Steel Sign Supports	28.000 EACH	_____.____	_____.____
0512	643.0300 Traffic Control Drums	242,773.000 DAY	_____.____	_____.____

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

September 26, 2024

NOTICE TO ALL CONTRACTORS:

Proposal #06:

1100-20-70, WISC 2025004
IH 41 Zoo Freeway
Burleigh St to Capitol Dr
IH 41
Milwaukee County

1100-20-71, WISC 2025005 IH 41 Zoo Freeway
Capitol Dr to Silver Springs Dr
IH 41
Milwaukee County

Letting of October 8, 2024

This is Addendum No. 02, which provides for the following:

Special Provisions:

Deleted Special Provisions	
Article No.	Description
60	HMA Pavement Percent Within Limits (PWL) QMP

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
204.0157	Removing Concrete Barrier	LF	5,720	60	5,780
460.2000	Incentive Density HMA Pavement	DOL	16,600	-3,590	13,010
522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete – 18-inch	EA	8	1	9
603.1142	Concrete Barrier Type S42	LF	6,456	35	6,491
603.3213	Concrete Barrier Transition Type F32SF to S36	EA	9	1	10
603.3535	Concrete Barrier Transition Type S36 to S42	EA	9	1	10
608.0318	Storm Sewer Pipe Reinforced Concrete Class III – 18-inch	LF	829	76	905
633.5200	Markers Culvert End	EA	69	1	70
643.0420	Traffic Control Barricades Type III	DAYS	22,267	2296	24,563
643.0705	Traffic Control Warning Lights Type A	DAYS	44,660	4592	49,252
646.0900	Traffic Control Signs	DAYS	99,136	1312	100,448

SPV.0055.0001	Incentive Density PWL	DOL	30,720	-5,640	25,080
SPV.0055.0002	Incentive Air Voids	DOL	30,720	-1,300	29,420
SPV.0060.8000	Reconnect Storm Sewer	EA	101	2	103

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Quantity Added	Proposal Total After Addendum
511.1100	Temporary Shoring	SF	0	600	600
643.0500	Traffic Control Flexible Tubular Marker Post	EACH	0	42	42
643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	0	42	42
646.1020	Marking Line Epoxy 4-Inch	LF	0	200	200

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
460.2010	Incentive Air Voids HMA Pavement	DOL	30,720	-30,720	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
	ID 1100-20-70
2	Pavement type and layer thickness table corrected for ID 1100-20-70
399	Items 643.0500 & 643.0600 added to MQs
401	Location added and quantities added to MQs for items 643.0420, 643.0705, & 643.0900
403	Item 646.1020 added to MQs
432-437	Corrected PWL Table
	ID 1100-20-71
79	New work called out in plan details near B-40-217 & B-40-216
80	New work called out in plan details near B-40-217 & B-40-216
130	Revised storm sewer plan sheet
408	Item quantity updated for 204.0157
410	Item 511.1100 added to MQs
411	Locations and quantities added to MQs for items 603.1442, 603.3213 & 603.3535
412	Additional locations and quantities on pg 1321 caused rows to move on pg 1322
413	Quantity changes for items 603.1442, 603.3213 & 603.3535
425	Revised storm sewer MQs
428	Revised storm sewer MQs
429	Revised storm sewer MQs
430	Revised storm sewer MQs
431	Revised storm sewer MQs
465	New work called out in plan sheets: “temporary shoring” & and concrete barrier replacement limits updated

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
	ID 1100-20-70
25A	Construction Details (Lane 2 Paving Sequence) 1/4 - Clarify paving sequence for lane 2
25B	Construction Details (Lane 2 Paving Sequence) 2/4
25C	Construction Details (Lane 2 Paving Sequence) 3/4
25D	Construction Details (Lane 2 Paving Sequence) 4/4
366A	Burleigh St Median Closure (Mayfair Rd/ HWY 100) – TMP agreement requirement
	1100-20-71
581A	SDD 14B36-02c – Omitted in original submission

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

1100-20-70 & 1100-20-71

September 26, 2024

Special Provisions

60. DELETED

Schedule of Items
Attached, dated September 26, 2024, are the revised Schedule of Items Pages 1 – 33.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

ID 1100-20-70
Revised: 2, 399, 401, 403, and 432 – 437.
Added: 25A – 25D, 366A, and 581A

ID 1100-20-71
Revised: 79, 80, 130, 408, 410 – 413, 428 – 431, and 465.
Added: 581A

END OF ADDENDUM

STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
A.D.T.	AVERAGE DAILY TRAFFIC
B.F.	BACK FACE
B.M.	BENCH MARK
B.O.C.	BACK OF CURB
CTR.	CENTER
C.L.	CENTERLINE
D.	LANE DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
DIA.	DIAMETER
DIM.	DIMENSION
EL. OR ELEV.	ELEVATION
EXC.	EXCAVATION
F.F.	FRONT FACE
MAX.	MAXIMUM
MIN.	MINIMUM
NORM.	NORMAL
O.H.	OVERHEAD POWER LINE
P.O.L.	POINT ON LINE
REQ'D	REQUIRED
RDWY.	ROADWAY
R.H.F.	RIGHT HAND FORWARD
S.E.	SUPERELEVATION
SPA.	SPACE
STA.	STATION
SYM.	SYMMETRICAL
T.	PERCENT TRUCKS
TYP.	TYPICAL
V.	DESIGN SPEED

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
PLAN DETAILS
PAVING GRADES
FTMS PLANS
EROSION CONTROL
GRUBBING
STORM SEWER PLAN
SIGNING PLAN
LIGHTING PLAN
PAVEMENT MARKINGS
STAGE CONSTRUCTION
ALIGNMENT LAYOUT

2

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
5 SMA 58-28V	2"	2" SINGLE LAYER
5 SMA 58-28V	3"	1.5" UPPER LAYER 1.5" LOWER LAYER
5 SMA 58-28V OVER 3 HT 58-28H	4"	2" UPPER LAYER 2" LOWER LAYER
5 SMA 58-28V OVER 3 HT 58-28H	4 1/2"	2" UPPER LAYER 2 1/2" LOWER LAYER
5 SMA 58-28V OVER 3 HT 58-28H	4 3/4"	2" UPPER LAYER 2 3/4" LOWER LAYER
5 SMA 58-28V OVER 3 HT 58-28H	5"	2" UPPER LAYER 3" LOWER LAYER
5 SMA 58-28V OVER 3 HT 58-28H	5 1/4"	2" UPPER LAYER 3 1/4" LOWER LAYER
5 SMA 58-28V OVER 3 HT 58-28H	13"	2" UPPER LAYER 3" MIDDLE LAYER 4" MIDDLE LAYER 4" LOWER LAYER

*SEE TYPICAL SECTIONS AND PLAN DETAILS FOR EXACT LOCATIONS

GENERAL NOTES

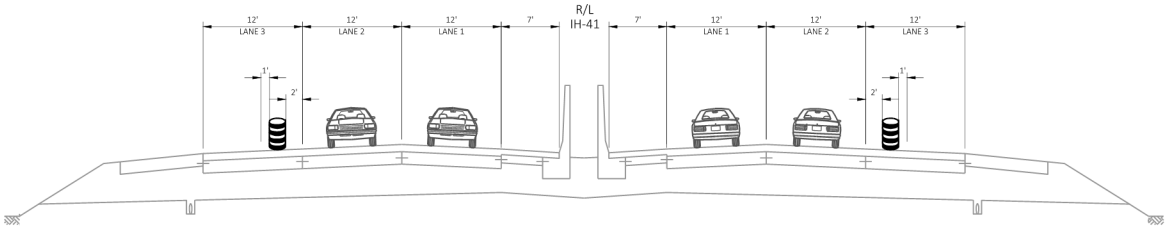
NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK CONTACT SEPARATELY ANY MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE. CONTACT RAILROAD COMPANY SEPARATELY.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE APPROXIMATE LOCATION OF SECTION CORNERS AND WITNESS CORNERS AFFECTED BY THE PROJECT IS SHOWN IN THE PLAN SHEETS. CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC (ROB MERRY) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

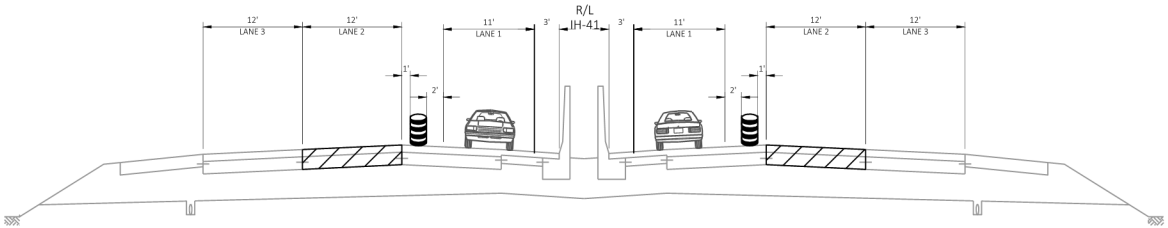
Addendum No. 02
ID 1100-20-70
Revised Sheet 2
September 26, 2024

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com



-OUTSIDE SHOULDER AVAILABLE FOR OTHER WORK OPERATIONS

LANE 2 PAVING SEQUENCE
STAGE 1 (DAY)



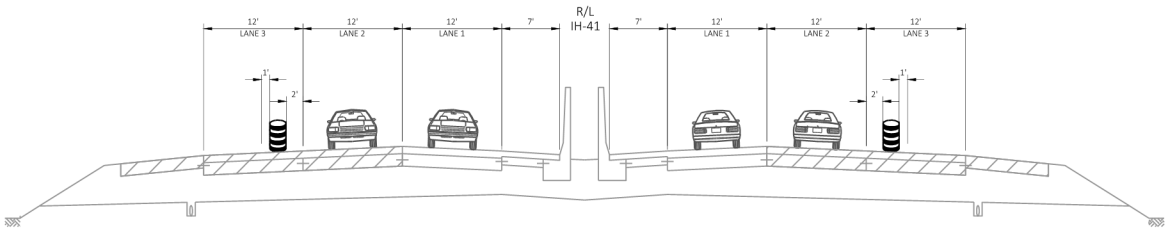
-BASE PATCH (LANE 2)

LANE 2 PAVING SEQUENCE
STAGE 1N (NIGHT)

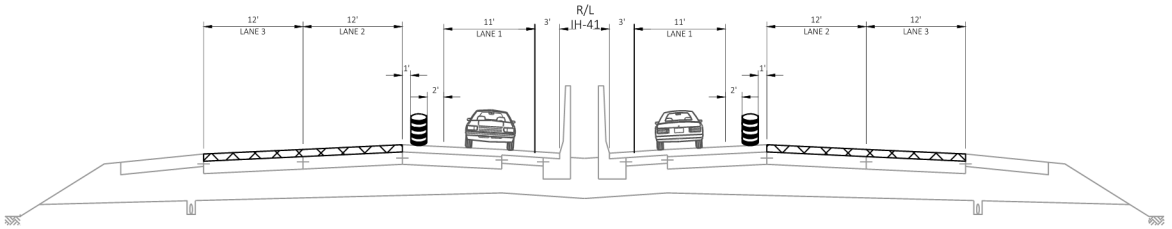
Addendum No. 02
ID 1100-20-70
Added Sheet 25A
September 26, 2024

PROJECT NO: 1100-20-70/71	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 25A	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002071\C3D 2018\TRAFFIC CONTROL\11002001_020302-TS_PAVING SEQUENCES.DWG
LAYOUT NAME - 020301-ts
PLOT DATE : 9/12/2024 9:16 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42

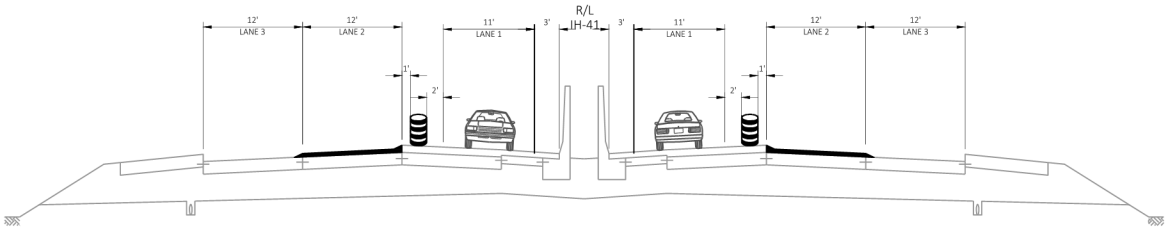


LANE 2 PAVING SEQUENCE
STAGE 1 (DAY)



LANE 2 PAVING SEQUENCE
STAGE 1N (NIGHT)

-REMOVING ASPHALTIC SURFACE MILLING (LANE 2)
-REMOVING ASPHALTIC SURFACE MILLING (LANE 3)

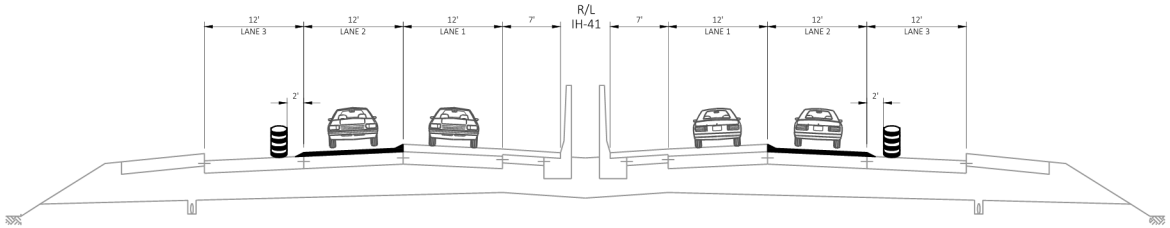


LANE 2 PAVING SEQUENCE
STAGE 1N (NIGHT)

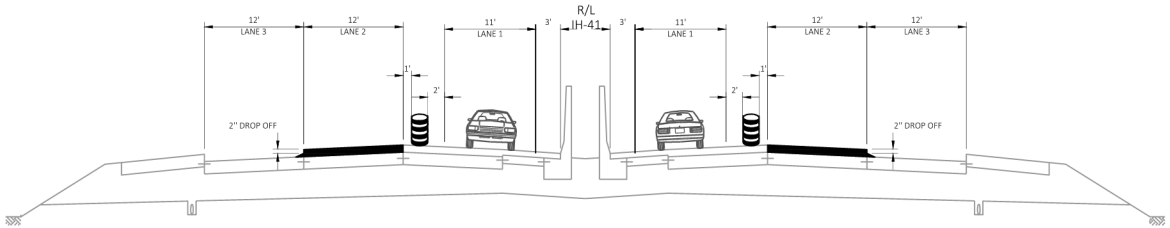
-PLACE LOWER LAYER HMA (LANE 2)

-CONSTRUCT NOTCHED WEDGES
LONGITUDINAL JOINT (LANE 1-2) & (LANE 2-3)
SEE SDD 13C19-03 "HMA LONGITUDINAL JOINTS"

Addendum No. 02
ID 1100-20-70
Added Sheet 25B
September 26, 2024



LANE 2 PAVING SEQUENCE
STAGE 1 (DAY)



LANE 2 PAVING SEQUENCE
STAGE 1N (NIGHT)

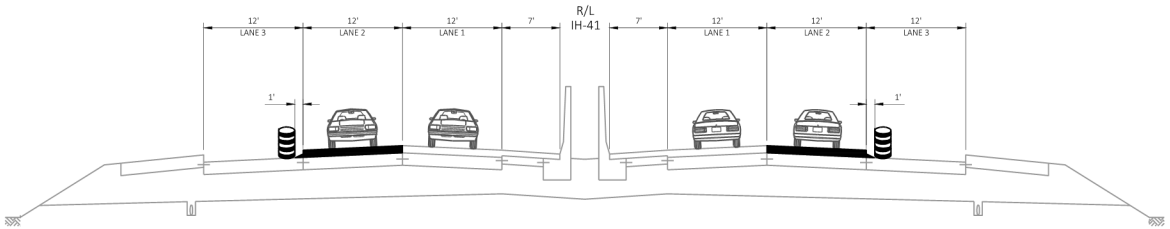
-REMOVING ASPHALTIC LONGITUDINAL NOTCHED WEDGE JOINT MILLING (LANE 1-2)

-PLACE UPPER LAYER HMA (LANE 2)

Addendum No. 02
ID 1100-20-70
Added Sheet 25C
September 26, 2024

PROJECT NO: 1100-20-70/71	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 25C	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002071\C3D 2018\TRAFFIC CONTROL\11002001_020302-TS_PAVING SEQUENCES.DWG
LAYOUT NAME : 020303-1
PLOT DATE : 9/12/2024 9:16 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN:15 FT



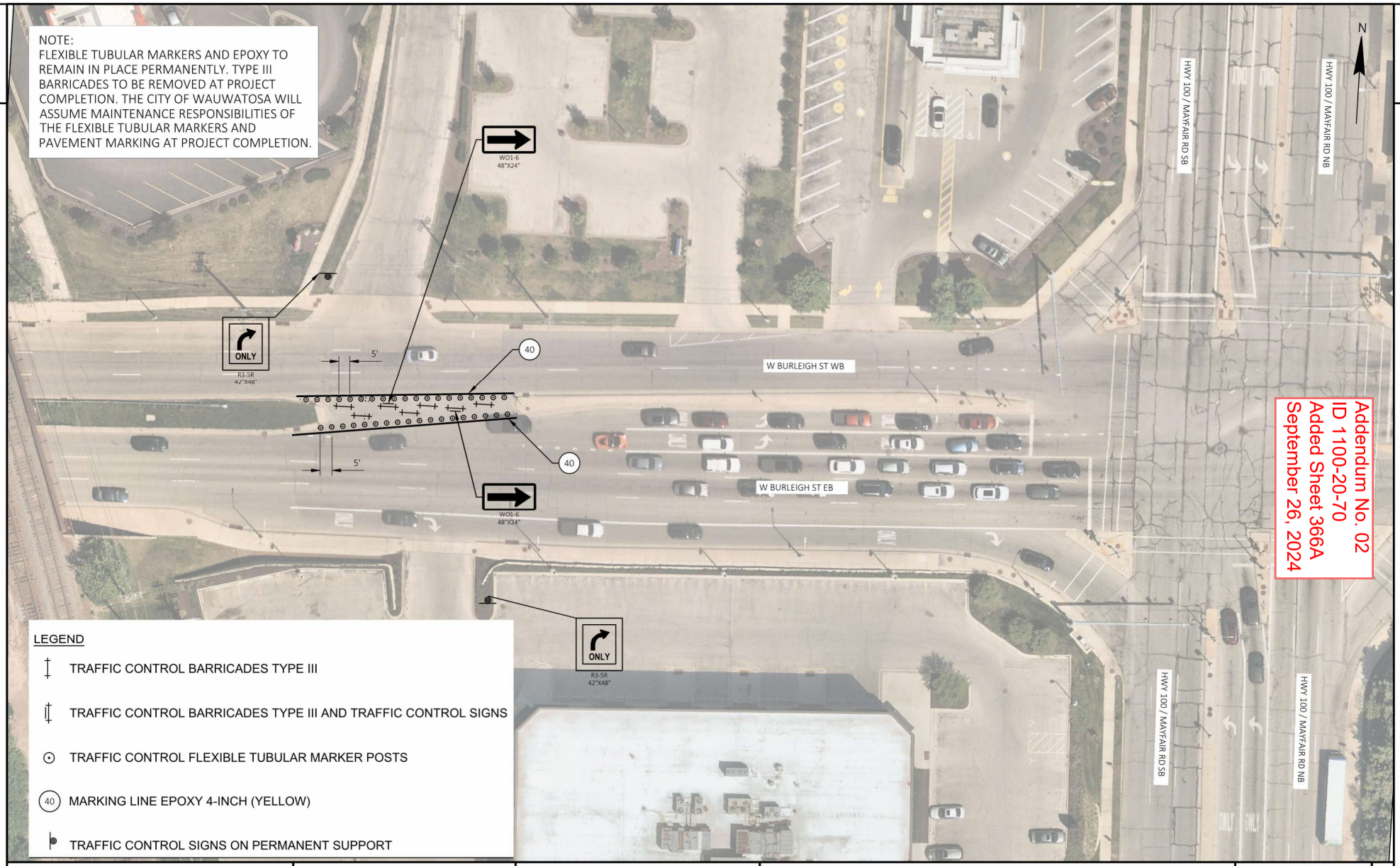
LANE 2 PAVING SEQUENCE
STAGE 1 (DAY)

Addendum No. 02
ID 1100-20-70
Added Sheet 25D
September 26, 2024

PROJECT NO: 1100-20-70/71	HWY: IH 41	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 25D	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002071\C3D 2018\TRAFFIC CONTROL\11002001_020302-TS_PAVING SEQUENCES.DWG
LAYOUT NAME : 020304-ts
PLOT DATE : 9/12/2024 9:16 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42

NOTE:
FLEXIBLE TUBULAR MARKERS AND EPOXY TO REMAIN IN PLACE PERMANENTLY. TYPE III BARRICADES TO BE REMOVED AT PROJECT COMPLETION. THE CITY OF WAUWATOSA WILL ASSUME MAINTENANCE RESPONSIBILITIES OF THE FLEXIBLE TUBULAR MARKERS AND PAVEMENT MARKING AT PROJECT COMPLETION.



Addendum No. 02
ID 1100-20-70
Added Sheet 366A
September 26, 2024

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III AND TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS
- (40) MARKING LINE EPOXY 4-INCH (YELLOW)
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	BURLEIGH MEDIAN CLOSURE (MAYFAIR RD / HWY 100)	SHEET 366A	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\1-TRAFFIC CONTROL\TRAFFIC CONTROL SHEETS\11002070_TC_BURLEIGH MEDIAN CLOSURE.DWG
LAYOUT NAME - 01
PLOT DATE : 9/19/2024 2:15 PM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

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DELINEATORS BARRIER WALL

CATEGORY	STATION	TO	STATION	LOCATION	633.1000 DELINEATORS BARRIER WALL EACH	REMARKS
1000	178+50	-	181+75	NB	3	
	187+60	-	221+25	NB	34	
	227+23	-	245+73	NB	19	
	172+60	-	182+82	SB	10	
	191+51	-	214+96	SB	23	
	225+92	-	239+48	SB	14	
				TOTAL	103	

DETOUR SIGNS

CATEGORY	LOCATION	DAYS	* 643.0900 TRAFFIC CONTROL SIGNS EACH	DAY	REMARKS
1000	CAPITOL DRIVE DETOURS	58	295	17,110	STAGE 2
	NORTH AVE DETOURS	140	60	8,400	STAGE 1 & 1N, STAGE 2
	BURLEIGH ST TO CAPITOL DR	60	104	6,240	FULL CLOSURES
	TOTAL			31,750	

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643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I

643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	STATION	TO	STATION	LOCATION	STAGE	EACH	NUMBER OF CYCLES	NUMBER OF SIGNS	EACH	NUMBER OF CYCLES	NUMBER OF SIGNS	REMARKS
1000	165+53	-	243+35	IH 41	STAGE1	3	1	3	16	1	16	
					STAGE 2	3	1	3	16	1	16	
					STAGE 3	3	1	3	16	1	16	
					STAGE 4	3	1	3	16	1	16	
					STAGE 5	3	1	3	16	1	16	
					TOTAL			3			16	

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TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	643.4100 TRAFFIC CONTROL INTERM CLOSURE EACH	REMARKS
1000	165+53	-	243+35	IH 41	40	
				TOTAL	40	

TRAFFIC CONTROL

CATEGORY	LOCATION	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	REMARKS
1000	W BURLEIGH ST MEDIAN	42	42	
	TOTAL	42	42	

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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 399	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_030201-MQ.DWG
LAYOUT NAME - 09
PLOT DATE : 9/20/2024 9:24 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

Addendum No. 02
ID 1100-20-70
Revised Sheet 401
September 26, 2024

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TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	* 643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.5000 TRAFFIC CONTROL EACH	REMARKS
1000	PREP STAGE IH 41 NB	39	206	8,034	12	468	24	936	29	1,131	2	78	22	858	--	
	PREP STAGE IH 41 SB	39	79	3,081	5	195	10	390	--	--	--	--	13	507	--	
	PREP STAGE NORTH AVE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	PREP STAGE IH 41 TOTAL			11,115		663		1,326		1,131		78		1,365	--	
	STAGE 1 & 1N IH 41 NB	40	416	16,640	21	840	42	1,680	75	3,000	2	80	34	1,360	--	
	STAGE 1 & 1N IH 41 SB	40	114	4,560	6	240	12	480	19	760	--	--	17	680	--	
	STAGE 1 & 1N NORTH AVE	40	31	1,240	4	160	8	320	11	440	1	40	11	440	--	
	STAGE 1 & 1N TOTAL			22,440		1,240		2,480		4,200		120		2,480	--	
	STAGE 2 IH 41 NB	58	309	17,922	21	1,218	42	2,436	79	4,582	3	174	49	2,842	--	
	STAGE 2 IH 41 SB	58	84	4,872	9	522	18	1,044	20	1,160	--	--	17	986	--	
	STAGE 2 NORTH AVE	58	23	1,334	5	290	10	580	11	638	--	--	9	522	--	
	STAGE 2 CAPITOL DR	58	7	406	3	174	6	348	12	696	--	--	3	174	--	
	STAGE 2 TOTAL			24,534		2,204		4,408		7,076		174		4,524	--	
	STAGE 3 IH 41 NB	36	209	7,524	12	432	24	864	39	1,404	2	72	26	936	--	
	STAGE 3 IH 41 SB	36	23	828	10	360	20	720	13	468	--	--	19	684	--	
	STAGE 3 CAPITOL DR	36	13	468	3	108	6	216	7	252	--	--	3	108	--	
	STAGE 3 TOTAL			8,820		900		1,800		2,124		72		1,728	--	
	STAGE 3B IH 41 NB	71	142	10,082	7	497	14	994	21	1,491	--	--	24	1,704	--	
	STAGE 3B IH 41 SB	71	33	2,343	11	781	22	1,562	15	1,065	--	--	19	1,349	--	
	STAGE 3B CAPITOL DR	71	13	923	3	213	6	426	7	497	--	--	3	213	--	
	STAGE 3B TOTAL			13,348		1,491		2,982		3,053		--		3,266	--	
	STAGE 4 IH 41 NB	42	200	8,400	17	714	34	1,428	28	1,176	2	84	31	1,302	--	
	STAGE 4 IH 41 SB	42	75	3,150	12	504	24	1,008	--	--	--	--	20	840	--	
	STAGE 4 TOTAL			11,550		1,218		2,436		1,176		84		2,142	--	
	STAGE 5 IH 41 NB	42	289	12,138	25	1,050	50	2,100	44	1,848	4	168	40	1,680	--	
	STAGE 5 IH 41 SB	42	73	3,066	7	294	14	588	--	--	--	--	10	420	--	
	STAGE 5 NORTH AVE	42	21	882	5	210	10	420	10	420	--	--	10	420	--	
	STAGE 5 BURLEIGH ST	42	17	714	4	168	8	336	11	462	--	--	10	420	--	
	STAGE 5 CAPITOL DR	42	28	1,176	7	294	17	714	--	--	1	42	13	546	--	
	STAGE 5 TOTAL			17,976		2,016		4,158		2,730		210		3,486	--	
	ENTRANCE RAMPS	328	--	--	--	--	--	--	--	--	--	--	8	2,624	--	
	ENTRANCE RAMPS SUBTOTAL			--		--		--		--		--		2,624	--	
	W BURLEIGH ST	328	--	--	7	2,296	14	4,592	--	--	--	--	4	1,312	--	
	W BURLEIGH ST			--		2,296		4,592		--		--	4	1,312	--	
	UNDISTRIBUTED			--		--		--		--		--		--	0.5	
	TOTAL			109,783		12,028		24,182		21,490		738		22,927	0.5	*ADDITIONAL QUANTITY SHOWN ELSEWHERE

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PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 401	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_030201-MQ.DWG
LAYOUT NAME - 11
PLOT DATE : 9/20/2024 9:24 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1" = 1'

2

PAVEMENT MARKINGS

CATEGORY	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF
1000	W BURLEIGH ST MEDIAN	200
	TOTAL	200

PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE DASHED 12.5' LINE AND 37.5' GAP) WHITE LF	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE) WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DASHED 3' LINE AND 9' SKIP) WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH(DASHED 2' LINE AND 6' SKIP WHITE LF
1000	190+00		204+00	BURLEIGH ST	570	1,603	152	175
				TOTAL	570	1,603	152	175

PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH WHITE WHITE LF	646.2020 MARKING LINE EPOXY 6-INCH WHITE YELLOW LF	646.2020 MARKING LINE EPOXY 6-INCH WHITE DASHED (12.5x37.5) LF	646.2025 BLACK EPOXY 6-INCH BLACK DASHED (12.5x37.5) LF	646.2040 WET REF EPOXY 6-INCH WHITE LF	646.2040 WET REF EPOXY 6-INCH YELLOW LF	646.2050 PERMANENT TAPE 6-INCH WHITE DASHED (12.5x37.5) LF	646.4050 PERMANENT TAPE 10-INCH WHITE LF	646.4050 PERMANENT TAPE 10-INCH WHITE DASHED (3x9) LF	646.4050 PERMANENT TAPE 10-INCH WHITE DASHED (2x6) LF	646.4050 PERMANENT TAPE 10-INCH BLACK DASHED (3x6) LF	646.5020 MARKING ARROW EPOXY TYPE 1 EACH	646.5020 MARKING ARROW EPOXY TYPE 2 EACH	646.5020 MARKING ARROW EPOXY TYPE 3 EACH	646.5020 MARKING ARROW EPOXY TYPE 4 EACH
1000	165+53	-	243+35	NB IH 41	395	366	283	4,122	8,794	10,909	4,501	4,566	908	39	908	0	0	0	0
	165+53	-	243+35	SB IH 41	396	395	283	4147	10,642	10,032	4,207	5,217	1,021	130	1,021	0	10	4	2
	190+00		204+00	BURLEIGH ST	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0
				SUBTOTAL	791	761	566	8,269	19,436	20,941	8,708	9,783	1,929	169	1,929	1	14	4	2
				TOTAL	2,118			8,269	40,377		8,708	13,810				21			

PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.5120 MARKING WORD EPOXY WHITE EACH	646.5220 MARKING SYMBOL EPOXY, BIKE LANE WHITE EACH	646.5220 MARKING SYMBOL EPOXY, HOV SYMBOL WHITE EACH	646.5520 MARKING OUTFALL EPOXY WHITE EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.6220 MARKING YIELD LINE SYMBOL EPOXY 18-INCH WHITE EACH	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7220 MARKING CHEVRON EPOXY 24-INCH WHITE LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH
1000	165+53	-	243+35	NB IH 41	0	0	10	13	97	18	2,190	129	242	0
	165+53	-	243+35	SB IH 41	10	0	3	9	59	36	848	348	169	0
	190+00		204+00	BURLEIGH ST	4	1	0	0	232	0	0	0	465	1
				SUBTOTAL	14	1	13	22	388	54	3,038	477	876	1
				TOTAL	14	14		22	388	54	3,038	477	876	1

Addendum No. 02
ID 1100-20-70
Revised Sheet 403
September 26, 2024

PROJECT NO: 1100-20-70	HWY: IH 41	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 403	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002070\C3D 2018\11002000_030201-MQ.DWG
LAYOUT NAME - 13
PLOT DATE : 9/20/2024 9:24 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

HMA PWL Table per FDM 19-21-5.2.4.4

PWL Mixture Use Table

The following acceptance criteria are applicable for this project:

Location	Station	Mixture Use	Underlying Surface	Bid Item		Tons	Thickness	Quality Management Program to be used for: Mixture Acceptance	Density Acceptance
3 x 12 foot driving lanes	165+53 to 167+75 NB	Upper Layer	Variable depth HMA	5 SMA 58-28V	100	1,049	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	183+75 to 195+00 NB				606				
	223+29 to 230+75 NB				343				
3 x 12 foot driving lanes	165+53 to 167+75 NB	Lower Layer	9" Existing Concrete	3 HT 58-28H	134	1,404	VARIES	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
	183+75 to 195+00 NB				806				
	223+29 to 230+75 NB				464				
3 x 12 foot driving lanes	165+53 to 167+75 SB	Upper Layer	Variable depth HMA	5 SMA 58-28V	98	933	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	183+75 to 195+00 SB				504				
	223+29 to 230+75 SB				331				
3 x 12 foot driving lanes	165+53 to 167+75 SB	Lower Layer	9" Existing Concrete	3 HT 58-28H	133	1,265	VARIES	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
	183+75 to 195+00 SB				682				
	223+29 to 230+75 SB				450				
Variable Width Inside Shoulder	165+53 to 203+80 NB	Upper Layer	9" Existing Concrete	5 SMA 58-28V	993	1,253	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	223+29 to 240+50 NB				260				
Variable Width Inside Shoulder	165+53 to 203+80 SB	Upper Layer	9" Existing Concrete	5 SMA 58-28V	937	1,209	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	223+29 to 240+50 SB				272				

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*QUANTITIES CONTINUE (1/6)

Addendum No. 02
ID 1100-20-70
Revised Sheet 432
September 26, 2024

Location	Station	Mixture Use	Underlying Surface	Bid Item		Tons	Thickness	Mixture Acceptance	Density Acceptance
3 x 12 foot driving lanes	167+75 to 183+75 NB	Upper Layer	2" HMA	5 SMA 58-28V	624	2,045	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	195+00 to 223+29 NB				1,095				
	230+75 to 240+50 NB				326				
3 x 12 foot driving lanes	167+75 to 183+75 NB	Lower Layer	9" Existing Concrete	3 HT 58-28H	624	2,077	2"	Incentive Air Voids HMA Pavement SPV.0055.0002	2 Incentive Density PWL HMA Pavement SPV.0055.0001
	195+00 to 223+29 NB				1,127				
	230+75 to 240+50 NB				326				
3 x 12 foot driving lanes	167+75 to 183+75 SB	Upper Layer	2" HMA	5 SMA 58-28V	634	2,059	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	195+00 to 223+29 SB				1,100				
	230+75 to 240+50 SB				325				
3 x 12 foot driving lanes	167+75 to 183+75 SB	Lower Layer	9" Existing Concrete	3 HT 58-28H	634	2,095	2"	Incentive Air Voids HMA Pavement SPV.0055.0002	2 Incentive Density PWL HMA Pavement SPV.0055.0001
	195+00 to 223+29 SB				1,136				
	230+75 to 240+50 SB				325				

*QUANTITIES CONTINUE (2/6)

Addendum No. 02
ID 1100-20-70
Revised Sheet 433
September 26, 2024

Location	Station	Mixture Use	Underlying Surface	Bid Item		Tons	Thickness	Mixture Acceptance	Density Acceptance
10' outside shouder	191+50 to 221+25 SB	Upper Layer	11" HMA	5 SMA 58-28V	350	350	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
10' outside shouder	191+50 to 221+25 SB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,912	1,912	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
Variable width driving lane	194+15 to 206+00 SB	Upper Layer	11" HMA	5 SMA 58-28V	247	247	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
Variable width driving lane	194+15 to 206+00 SB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,351	1,351	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
Variable width median shouder NB	203+80 to 223+29 NB	Upper Layer	11" HMA	5 SMA 58-28V	184	184	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
Variable width median shouder NB	203+80 to 223+29 NB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,000	1,000	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
Variable width median shouder SB	203+80 to 223+29 SB	Upper Layer	11" HMA	5 SMA 58-28V	203	203	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
Variable width median shouder SB	203+80 to 223+29 SB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,058	1,058	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
10' outside shouder	203+80 to 221+25 NB	Upper Layer	11" HMA	5 SMA 58-28V	250	250	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
10' outside shouder	203+80 to 221+25 NB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,369	1,369	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
12' driving lane	203+80 to 221+25 NB	Upper Layer	11" HMA	5 SMA 58-28V	189	189	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
12' driving lane	203+80 to 221+25 NB	Lower Layer	22" Base Aggregate	3 HT 58-28 H	1,031	1,031	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
Variable width driving lane	192+50 to 200+43 WB Burleigh St	Upper Layer	Variable depth HMA	5 SMA 58-28V	294	294	1.5"	QMP as per SS 460.	Acceptance testing based on cores
Variable width driving lane	192+50 to 200+43 EB Burleigh St	Upper Layer	Variable depth HMA	5 SMA 58-28V	292	292	1.5"	QMP as per SS 460.	Acceptance testing based on cores
Variable width driving lane	192+50 to 200+43 WB Burleigh St	Lower Layer	Variable depth HMA	5 SMA 58-28V	294	294	1.5"	QMP as per SS 460.	Acceptance testing based on cores
Variable width driving lane	192+50 to 200+43 EB Burleigh St	Lower Layer	Variable depth HMA	5 SMA 58-28V	292	292	1.5"	QMP as per SS 460.	Acceptance testing based on cores

2

2

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*QUANTITIES CONTINUE (3/6)

Addendum No. 02
ID 1100-20-70
Revised Sheet 434
September 26, 2024

Location	Station	Mixture Use	Underlying Surface	Bid Item		Tons	Thickness	Mixture Acceptance	Density Acceptance
3 x 12 foot driving lanes	240+50 to 247+50 NB	Upper Layer	Variable depth HMA	5 SMA 58-28V	392	3,616	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	255+75 to 262+50 NB				302				
	270+25 to 308+30 NB				1,667				
	316+75 to 332+00 NB				790				
	340+00 to 348+72 NB				464				
3 x 12 foot driving lanes	240+50 to 247+50 NB	Lower Layer	9" Existing Cracked and Seated Concrete	3 HT 58-28H	418	4,730	VARIES	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
	255+75 to 262+50 NB				403				
	270+25 to 308+30 NB				2,216				
	316+75 to 332+00 NB				1,081				
	340+00 to 348+72 NB				613				
3 x 12 foot driving lanes	240+50 to 247+50 SB	Upper Layer	Variable depth HMA	5 SMA 58-28V	312	3,363	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	255+75 to 262+50 SB				301				
	270+25 to 308+30 SB				1,642				
	316+75 to 332+00 SB				733				
	340+00 to 348+72 SB				375				
3 x 12 foot driving lanes	240+50 to 247+50 SB	Lower Layer	9" Existing Cracked and Seated Concrete	3 HT 58-28H	416	4,474	VARIES	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
	255+75 to 262+50 SB				401				
	270+25 to 308+30 SB				2,184				
	316+75 to 332+00 SB				973				
	340+00 to 348+72 SB				501				
Variable Width Inside Shoulder	240+50 to 348+72 NB	Upper Layer	9" Existing Concrete	5 SMA 58-28V	2,050	2,050	VARIES	QMP as per SS 460.	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
Variable Width Inside Shoulder	240+50 to 348+72 SB	Upper Layer	9" Existing Concrete	5 SMA 58-28V	2,232	2,232	VARIES	QMP as per SS 460.	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive

2

QUANTITIES CONTINUE (4/6)

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Location	Station	Mixture Use	Underlying Surface	Bid Item		Tons	Thickness	Mixture Acceptance	Density Acceptance
3 x 12 foot driving lanes	247+50 to 255+75 NB	Upper Layer	2 1/2" HMA	5 SMA 58-28V	409	1,539	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	262+50 to 270+25 NB				345				
	308+30 to 316+75 NB				514				
	332+30 to 340+00 NB				270				
3 x 12 foot driving lanes	247+50 to 255+75 NB	Lower Layer	9" Existing Cracked and Seated Concrete	3 HT 58-28H	511	1,924	2 1/2"	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001 2
	262+50 to 270+25 NB				432				
	308+30 to 316+75 NB				643				
	332+30 to 340+00 NB				338				
3 x 12 foot driving lanes	247+50 to 255+75 SB	Upper Layer	2 1/2" HMA	5 SMA 58-28V	372	1,495	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
	262+50 to 270+25 SB				348				
	308+30 to 316+75 SB				483				
	332+30 to 340+00 SB				293				
3 x 12 foot driving lanes	247+50 to 255+75 SB	Lower Layer	9" Existing Cracked and Seated Concrete	3 HT 58-28H	464	1,869	2 1/2"	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
	262+50 to 270+25 SB				435				
	308+30 to 316+75 SB				603				
	332+30 to 340+00 SB				366				

*QUANTITIES CONTINUE (5/6)

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Location	Station	Mixture Use	Underlying Surface	Bid Item		Tons	Thickness	Mixture Acceptance	Density Acceptance
10' outside shouder	247+50 to 271+71 SB	Upper Layer	11" HMA	5 SMA 58-28V	316	316	2"	QMP as per SS 460.	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
10' outside shouder	247+50 to 271+71 SB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,739	1,739	11"	QMP as per SS 460.	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
12' driving lane	247+88 to 276+52 SB	Upper Layer	11" HMA	5 SMA 58-28V	337	337	2"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
12' driving lane	247+88 to 271+73 SB	Lower Layer	22" Base Aggregate	3 HT 58-28H	1,853	1,853	11"	Incentive Air Voids HMA Pavement SPV.0055.0002	Incentive Density PWL HMA Pavement SPV.0055.0001
12' exit lane	346+60 to 348+72 SB	Upper Layer	2 1/2" HMA	5 SMA 58-28V	26	26	2"	QMP as per SS 460.	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
12' exit lane	346+60 to 348+72 SB	Lower Layer	9" Existing Concrete	3 HT 58-28H	33	33	VARIES	QMP as per SS 460.	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
TOTAL TONS						57,300			

2

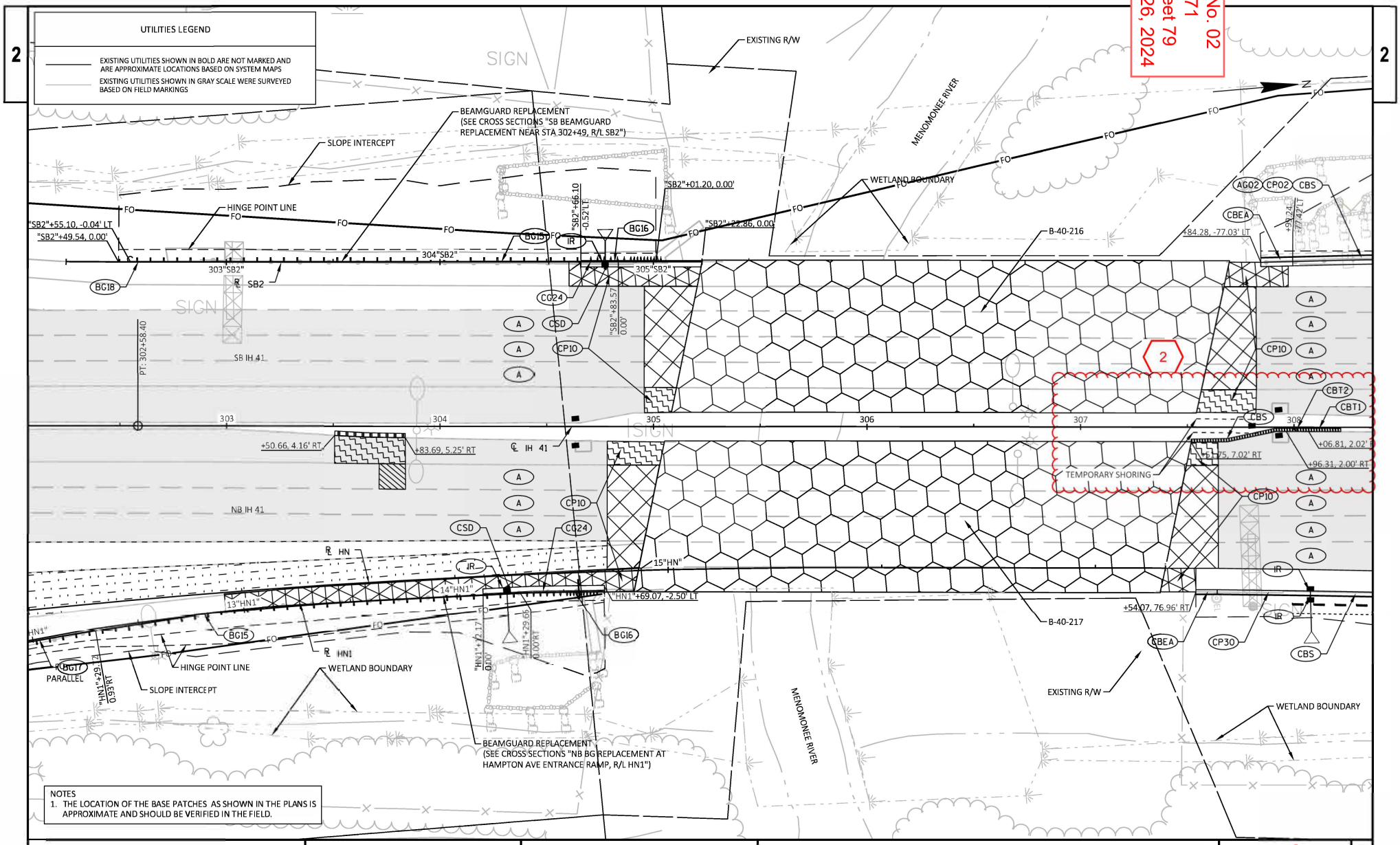
2

2

*QUANTITIES (6/6)

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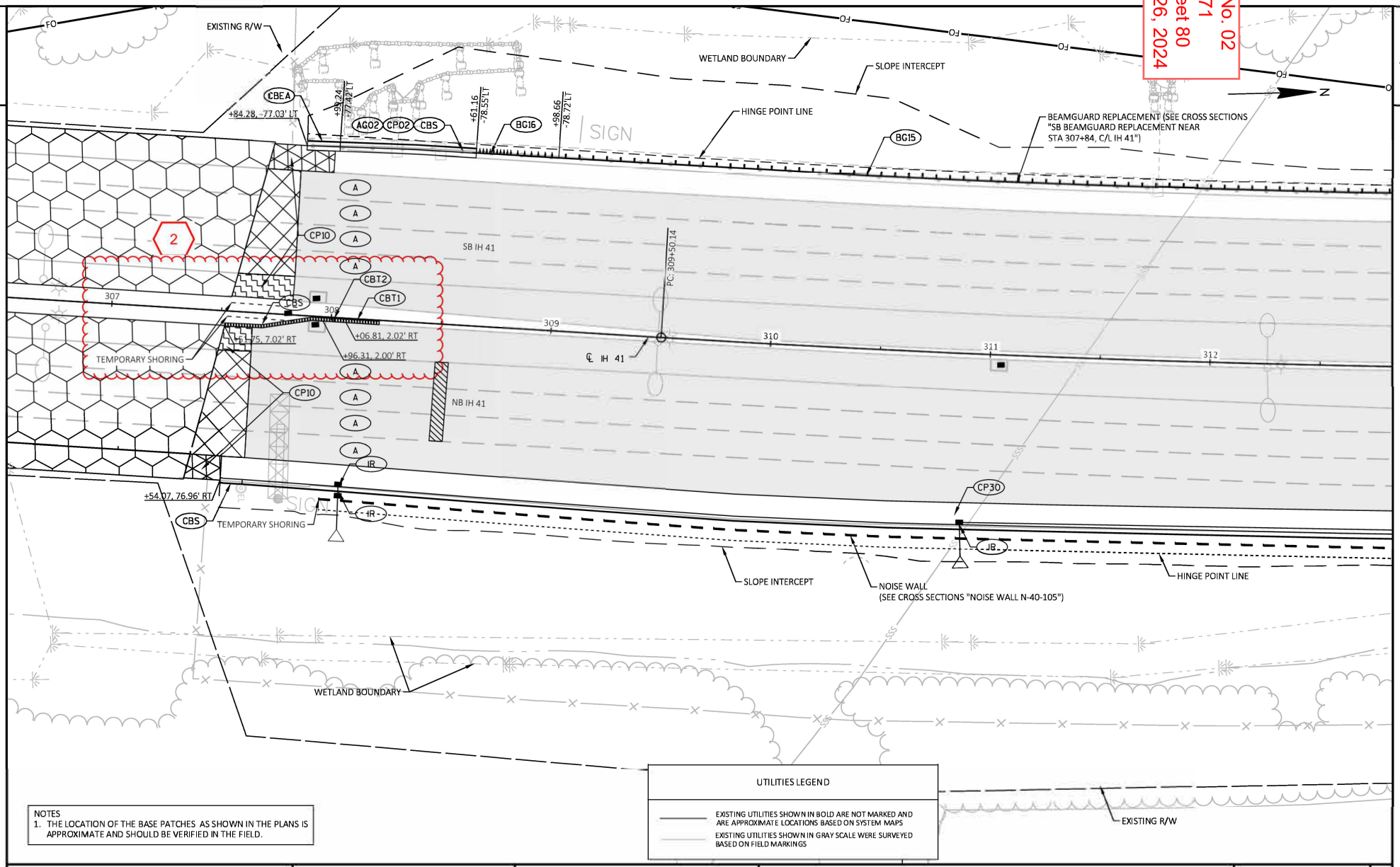
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PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 79	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002071\C3D 2018\11002001_021202-PD.DWG
LAYOUT NAME - 021214-PD
PLOT DATE : 9/23/2024 8:45 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN 40 FT

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UTILITIES LEGEND

EXISTING UTILITIES SHOWN IN BOLD ARE NOT MARKED AND ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

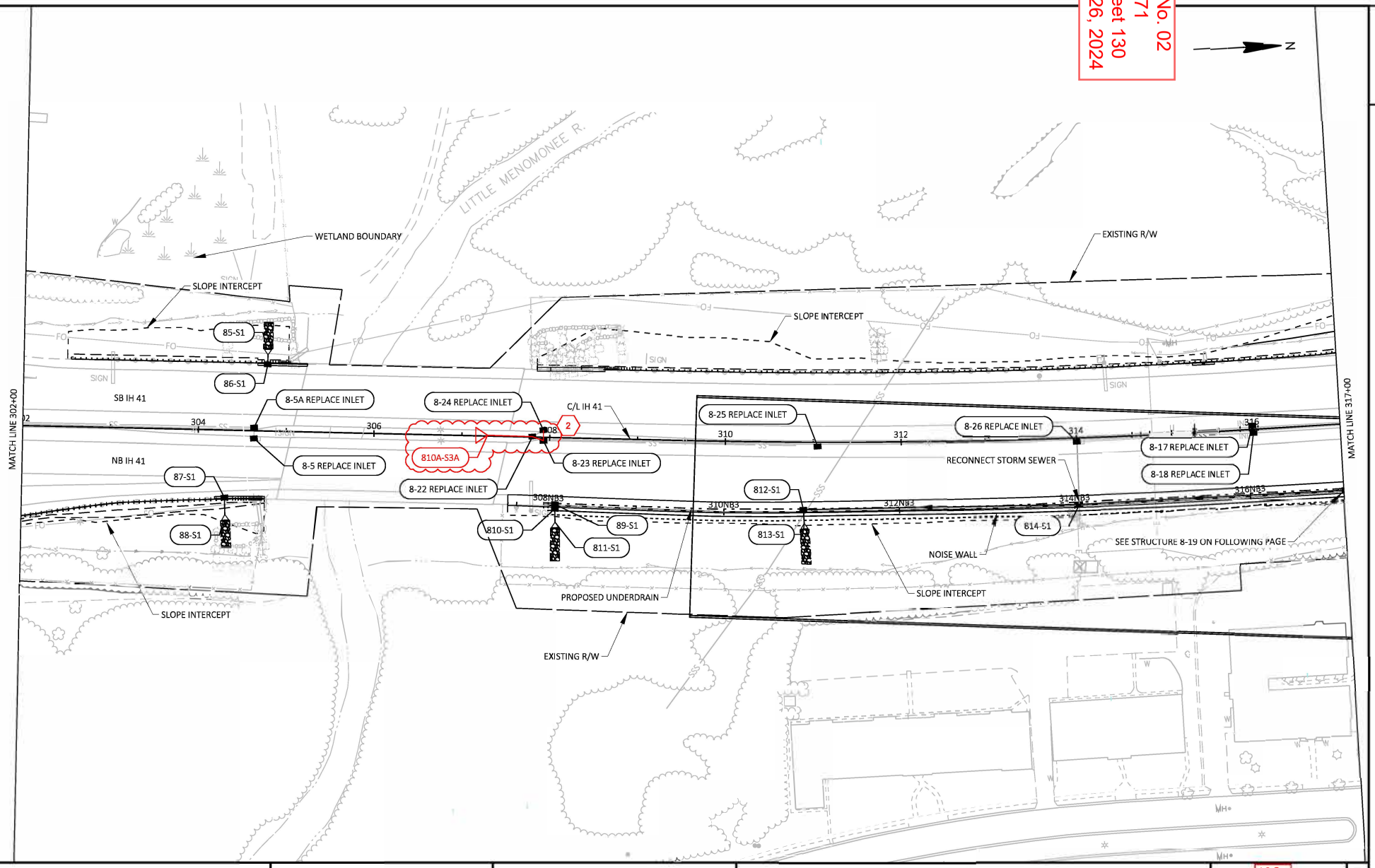
EXISTING UTILITIES SHOWN IN GRAY SCALE WERE SURVEYED BASED ON FIELD MARKINGS

NOTES
1. THE LOCATION OF THE BASE PATCHES AS SHOWN IN THE PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.

PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 80	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002071\C3D 2018\11002001_021202-PD.DWG
LAYOUT NAME - 021215-PD
PLOT DATE : 9/23/2024 8:46 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

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PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER PLAN	SHEET 130	E

FILE NAME : I:\79555\C3D\1100-20-00\SHEETSPLAN\STORM SEWER SHEET FILES\022502_SS UP TO DATE.DWG
LAYOUT NAME - 022506_ss
PLOT DATE : 9/20/2024 10:32 AM PLOT BY : ANDREW PATEK PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0150 REMOVING CURB & GUTTER LF	204.0157 REMOVING CONCRETE BARRIER LF	204.0165 REMOVING GUARDRAIL LF	204.0170 REMOVING FENCE LF	420.1000 CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT SY	REMARKS
1000	243+35	-	348+72	NB IH 41	1,047	--	65	61,455	105	1,360 (2)	1,094	--	--	
	243+35	-	348+72	SB IH 41	3,054	--	76	64,546	210	780	3,273	315	--	
	"HM3" 276+95.46	-	"HM3" 280+80.06	HAMPTON NB EXIT RAMP	--	--	--	--	--	--	265	385	--	
	16+00 "HK"	-	22+50 "HK"	HAMPTON SB ENTRANCE RAMP	50	--	--	--	318	--	83	--	--	
	3+23 "HN"	-	14+71 "HN"	HAMPTON NB ENTRANCE RAMP	--	--	--	--	57	--	288	--	4,186	
	249+89	-	253+80	CAPITOL NB ENTRANCE RAMP	--	3,160	--	--	--	--	--	--	--	
	344+55	-	348+72	SILVER SPRING NB ENTRANCE RAMP	--	5,219	--	--	--	--	--	--	--	
	318+63	-	323+83	SILVER SPRING SB ENTRANCE RAMP	--	4,255	--	--	--	--	--	--	--	
	243+34	-	247+50	NB INSIDE SHOULDER	--	4,193	--	--	--	--	--	--	--	
	243+34	-	247+50	SB INSIDE SHOULDER	--	4,268	--	--	--	--	--	--	--	
	255+75	-	262+50	NB INSIDE SHOULDER	--	9,808	--	--	--	--	--	--	--	
	255+75	-	262+50	SB INSIDE SHOULDER	--	11,330	--	--	--	--	--	--	--	
	270+25	-	276+52	NB INSIDE SHOULDER	--	8,930	--	--	--	--	--	--	--	
	270+25	-	276+52	SB INSIDE SHOULDER	--	10,279	--	--	--	--	--	--	--	
	334+31	-	335+33	NB INSIDE SHOULDER	--	1,210	--	--	--	--	--	--	--	
	334+31	-	335+33	SB INSIDE SHOULDER	--	1,593	--	--	--	--	--	--	--	
	276+52	-	308+30	NB INSIDE SHOULDER	--	42,252	--	--	--	--	--	--	--	
	276+52	-	308+30	SB INSIDE SHOULDER	--	47,320	--	--	--	--	--	--	--	
	316+75	-	332+00	NB INSIDE SHOULDER	--	24,163	--	--	--	--	--	--	--	
	316+75	-	332+00	SB INSIDE SHOULDER	--	25,067	--	--	--	--	--	--	--	
	340+00	-	348+72	NB INSIDE SHOULDER	--	13,586	--	--	--	--	--	--	--	
	340+00	-	348+72	SB INSIDE SHOULDER	--	13,976	--	--	--	--	--	--	--	
				TOTAL	4,151	230,608	141	126,001	689	2,140	5,003	700	4,186	

GRUBBING

CATEGORY	STATION	TO	STATION	OFFSET	201.0205 GRUBBING STA	REMARKS
1000	243+00	-	243+35	LT	20	
	261+00	-	263+00	RT	2	
	264+00	-	271+00	LT	7	
	272+00	-	290+00	LT	18	
	307+00	-	326+00	RT	19	
				TOTAL	66	

REMOVING ASPHALTIC LONGITUDINAL NOTCHED WEDGE JOINT MILLING

CATEGORY	STATION	TO	STATION	LOCATION	204.0126.S REMOVING ASPHALTIC LONGITUDINAL NOTCHED WEDGE JOINT MILLING LF	REMARKS
1000	243+35	-	348+74	NB IH 41	9,944	
	243+35	-	348+49	SB IH 41	9,917	
				TOTAL	19,861	

FINISHING ROADWAY

CATEGORY	LOCATION	213.0100.01 FINISHING ROADWAY (1100-20-71) EACH	REMARKS
1000	IH 41	1	
	TOTAL	1	

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FILE NAME : N:\PDS\C3D\1100200\SHEETSPLAN\1100207 1\C3D 2018\1100201_030202-MQ.DWG
LAYOUT NAME - 01
PLOT DATE : 9/23/2024 9:28 AM PLOT BY : CASTRO, JOEL PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

HMA COLD WEATHER PAVING

CATEGORY	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	REMARKS
1000	243+35	-	348+72	IH 41	8,089	
				TOTAL	8,089	

MATERIAL TRANSFER VEHICLE

CATEGORY	LOCATION	460.9000.S MATERIAL TRANSFER VEHICLE (1100-20-71) EACH	REMARKS
1000	IH 41	0.5	
	TOTAL	0.5	

ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.7423 HMA PAVEMENT 3 HT 58-28 H TON	460.8625 HMA PAVEMENT 5 SMA 58-28 V TON	REMARKS
1000	243+34	-	308+30	NB IH 41	4,528	5,329	4,515	
	208+30	-	332+00	NB IH 41	1,813	2,100	1,856	
	332+00	-	348+82	NB IH 41	994	1,162	990	
	243+34	-	308+30	SB IH 41	4,156	4,863	4,205	
	247+50	-	270+25	SB IH 41	700	3,592	653	
	308+30	-	332+00	SB IH 41	1,713	1,966	1,783	
	332+00	-	348+82	SB IH 41	999	1,117	965	
				TOTAL	14,902	20,130	14,967	

TEMPORARY SHORING

2

CATEGORY	STATION	TO	STATION	LOCATION	511.1100 TEMPORARY SHORING SF	511.1300.01 TEMPORARY SHORING (N-40-105) SF	REMARKS
1000	307+52	-	308+22	IH 41 NB	600	--	
	307+92	-	325+42	IH 41 NB	--	5,250	
				TOTAL	600	5,250	

CONCRETE SURFACE DRAIN

CATEGORY	STATION	LOCATION	602.3010 CONCRETE SURFACE DRAIN CY	REMARKS
1000	263+67	NB IH 41	2	
		TOTAL	2	

CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36 INCH TYPE A LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36 INCH TYPE A LF	601.0590 CONCRETE CURB & GUTTER 4-INCH SLOPED 36 INCH TYPE TBTT LF	REMARKS
1000	243+35	-	348+72	SB IH 41	--	379	--	
	16+00 "HK"	-	22+50 "HK"	HAMPTON SB ENTRANCE RAMP	78	--	40	
				TOTAL	78	379	40	

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PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 410	E

FILE NAME : N:\PDS\C3D\1 1002000\SHEETSPLAN\1 1002071\C3D 2018\1 1002001_030202-MQ.DWG
LAYOUT NAME -03
PLOT DATE : 9/23/2024 9:28 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

CONCRETE BARRIER

CATEGORY	STATION	TO	STATION	LOCATION	603.0105 CONCRETE BARRIER SINGLE-FACED 32-INCH LF	603.1142 CONCRETE BARRIER TYPE S42 LF	603.1442 CONCRETE BARRIER TYPE S42C LF	603.3213 CONCRETE BARRIER TRANSITION TYPE F32SF TO S36 EACH	603.3535 CONCRETE BARRIER TRANSITION TYPE S36 TO S42 EACH	SPV.0060.0003 CONCRETE BARRIER TYPE S42 END ANCHOR EACH	SPV.0090.0001 CONCRETE BARRIER DOUBLE FACED LF	REMARKS
1000	289+80	-	289+90	NB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	289+90	-	291+86	NB IH 41 OUTSIDE	0	195	0	0	0	0	0	
	291+86	-	291+96	NB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	307+54	-	307+64	NB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	307+64	-	325+60	NB IH 41 OUTSIDE	0	1,802	0	0	0	0	0	
	325+60	-	325+70	NB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	333+87	-	333+97	NB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	333+97	-	335+31	NB IH 41 OUTSIDE	0	153	0	0	0	0	0	
	335+31	-	335+41	NB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	337+21	-	337+36	NB IH 41 OUTSIDE	0	15	0	0	0	0	0	
	342+15	-	343+43	NB IH 41 OUTSIDE	0	128	0	0	0	0	0	
	243+44	-	243+59	NB IH 41 MEDIAN	0	0	0	0	0	0	15	
	244+19	-	244+34	NB IH 41 MEDIAN	0	0	0	0	0	0	15	
	245+73	-	245+88	NB IH 41 MEDIAN	0	0	0	0	0	0	15	
	247+86	-	248+01	NB IH 41 MEDIAN	0	0	0	0	0	0	15	
	248+49	-	248+64	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	249+94	-	250+09	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	252+44	-	252+59	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	254+75	-	254+90	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	258+19	-	258+34	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	258+78	-	258+88	NB IH 41 MEDIAN	0	0	0	1	0	0	0	
	258+88	-	258+99	NB IH 41 MEDIAN	0	0	0	0	1	0	0	
	258+99	-	260+01	NB IH 41 MEDIAN	0	103	0	0	0	0	0	
	260+01	-	260+12	NB IH 41 MEDIAN	0	0	0	0	1	0	0	
	260+12	-	260+22	NB IH 41 MEDIAN	0	0	0	1	0	0	0	
	261+42	-	261+57	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	269+40	-	269+55	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	273+92	-	274+07	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	276+41	-	276+56	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	279+94	-	280+09	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	283+46	-	283+61	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	286+72	-	286+87	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	292+95	-	293+10	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	295+94	-	296+09	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	298+97	-	299+12	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	300+76	-	301+06	NB IH 41 MEDIAN	30	0	0	0	0	0	0	
	301+76	-	301+91	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	303+51	-	303+84	NB IH 41 MEDIAN	33	0	0	0	0	0	0	
	307+52	-	307+96	NB IH 41 MEDIAN	0	35	0	0	0	0	0	
	307+96	-	308+06	NB IH 41 MEDIAN	0	0	0	0	1	0	0	
	308+06	-	308+22	NB IH 41 MEDIAN	0	0	0	1	0	0	0	
	314+62	-	314+73	NB IH 41 MEDIAN	0	0	0	0	0	0	0	
	314+73	-	314+84	NB IH 41 MEDIAN	0	0	0	0	1	0	0	
	314+84	-	315+86	NB IH 41 MEDIAN	0	100	0	0	0	0	0	
	315+86	-	315+97	NB IH 41 MEDIAN	0	0	0	0	1	0	0	CONTINUED

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CONCRETE BARRIER

CATEGORY	STATION	TO	STATION	LOCATION	603.0105 CONCRETE BARRIER SINGLE-FACED 32-INCH LF	603.1142 CONCRETE BARRIER TYPE S42 LF	603.1442 CONCRETE BARRIER TYPE S42C LF	603.3213 CONCRETE BARRIER TRANSITION TYPE F32SF TO S36 EACH	603.3535 CONCRETE BARRIER TRANSITION TYPE S36 TO S42 EACH	SPV.0060.0003 CONCRETE BARRIER TYPE S42 END ANCHOR EACH	SPV.0090.0001 CONCRETE BARRIER DOUBLE FACED LF	REMARKS
1000	315+97	-	316+07	NB IH 41 MEDIAN	0	0	0	1	0	0	0	
	318+46	-	318+61	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	321+07	-	321+22	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	323+44	-	323+59	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	326+47	-	326+62	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	329+43	-	329+58	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	333+36	-	334+19	NB IH 41 MEDIAN	83	0	0	0	0	0	0	
	340+70	-	340+85	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	341+18	-	341+33	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	344+18	-	344+33	NB IH 41 MEDIAN	15	0	0	0	0	0	0	
	261+61	-	261+71	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	261+71	-	263+09	SB IH 41 OUTSIDE	0	139	0	0	0	0	0	
	263+09	-	263+19	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	290+51	-	290+61	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	290+61	-	292+10	SB IH 41 OUTSIDE	0	169	0	0	0	0	0	
	292+10	-	292+20	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	307+84	-	307+94	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	307+94	-	308+59	SB IH 41 OUTSIDE	0	67	0	0	0	0	0	
	324+27	-	324+37	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	324+37	-	326+75	SB IH 41 OUTSIDE	0	238	0	0	0	0	0	
	326+75	-	326+85	SB IH 41 OUTSIDE	0	0	0	0	0	1	0	
	338+55	-	338+70	SB IH 41 OUTSIDE	15	0	0	0	0	0	0	
	258+78	-	258+88	SB IH 41 MEDIAN	0	0	0	1	0	0	0	
	258+88	-	258+99	SB IH 41 MEDIAN	0	0	0	0	1	0	0	
	258+99	-	260+01	SB IH 41 MEDIAN	0	103	0	0	0	0	0	
	260+01	-	260+12	SB IH 41 MEDIAN	0	0	0	0	1	0	0	
	260+12	-	260+22	SB IH 41 MEDIAN	0	0	0	1	0	0	0	
	261+42	-	261+57	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	263+20	-	263+35	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	263+70	-	263+85	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	264+17	-	264+32	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	266+43	-	266+58	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	269+40	-	269+55	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	273+92	-	274+07	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	276+40	-	276+55	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	279+93	-	280+08	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	283+45	-	283+60	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	286+71	-	286+86	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	292+94	-	293+09	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	295+97	-	296+12	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	301+75	-	301+90	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	314+63	-	314+73	SB IH 41 MEDIAN	0	0	0	1	0	0	0	
	314+73	-	314+84	SB IH 41 MEDIAN	0	0	0	0	1	0	0	
	314+84	-	315+86	SB IH 41 MEDIAN	0	100	0	0	0	0	0	
	315+86	-	315+97	SB IH 41 MEDIAN	0	0	0	0	1	0	0	
	315+97	-	316+07	SB IH 41 MEDIAN	0	0	0	1	0	0	0	
	318+45	-	318+60	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	321+06	-	321+21	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	323+43	-	323+58	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	326+46	-	326+61	SB IH 41 MEDIAN	15	0	0	0	0	0	0	CONTINUED

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CONCRETE BARRIER

CATEGORY	STATION	TO	STATION	LOCATION	603.0105 CONCRETE BARRIER SINGLE-FACED 32-INCH LF	603.1142 CONCRETE BARRIER TYPE S42 LF	603.1442 CONCRETE BARRIER TYPE S42C LF	603.3213 CONCRETE BARRIER TRANSITION TYPE F32SF TO S36 EACH	603.3535 CONCRETE BARRIER TRANSITION TYPE S36 TO S42 EACH	SPV.0060.0003 CONCRETE BARRIER TYPE S42 END ANCHOR EACH	SPV.0090.0001 CONCRETE BARRIER DOUBLE FACED LF	REMARKS
	332+45	-	332+60	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	329+42	-	329+57	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	334+15	-	334+30	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	334+53	-	334+68	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	337+25	-	337+40	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	340+68	-	340+83	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	341+17	-	341+32	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	344+00	-	344+15	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	344+17	-	344+32	SB IH 41 MEDIAN	15	0	0	0	0	0	0	
	17+00 "HK"	-	17+10 "HK"	HAMPTON SB ENTRANCE RAMP	0	0	0	0	0	1	0	
	17+10 "HK"	-	21+08 "HK"	HAMPTON SB ENTRANCE RAMP	0	0	400	0	0	0	0	
	21+08 "HK"	-	21+18 "HK"	HAMPTON SB ENTRANCE RAMP	0	0	0	0	0	1	0	
				TOTAL	926	3,352	400	9	9	15	60	

TEMPORARY CONCRETE BARRIER

CATEGORY	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	REMARKS
1000	NB IH 41	314	314	STAGE 1 & STAGE 1N
	SB IH 41	314	314	STAGE 1 & STAGE 1N
	NB IH 41	2,826	2,826	STAGE 2
	SB IH 41	6,428	6,428	STAGE 2
	NB IH 41	8,472	11,612	STAGE 3 & STAGE 3B
	SB IH 41	4,634	11,376	STAGE 3 & STAGE 3B
	TOTAL	22,988	32,870	

RIPRAP MEDIUM

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	REMARKS
1000	243+35	-	348+72	IH 41	75	
				TOTAL	75	

APRON ENDWALL FOR UNDERDRAIN

CATEGORY	STATION	TO	STATION	LOCATION	612.0806 APRON ENDWALL FOR UNDERDRAIN EACH	REMARKS
1000	243+35	-	348+72	IH 41	1	
				TOTAL	1	

PIPE UNDERDRAIN

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.0002 PIPE UNDERDRAIN 6-INCH SPECIAL LF	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF	612.0406 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	REMARKS
1000	304+00	-	305+00	NB IH 41	--	140	1	
	303+00	-	325+01	NB IH 41	1,761	--	--	
				TOTAL	1,761	140	1	

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	STATION	TO	STATION	LOCATION	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH	REMARKS
1000	243+35	-	348+72	IH 41	1	
				TOTAL	1	

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STORM SEWER PIPES

						608.0318	608.0324	608.0330	608.0342	
						STORM SEWER PIPE REINFORCED CONCRETE CLASS III				
LOCATION	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	18-INCH LF	24-INCH LF	30-INCH LF	42-INCH LF	COMMENTS
1100-20-71 STAGE 1										
IH41	711-S1	724-S1	702.82	702.78	0.0050	8	--	--	--	
IH41	724-S1	712A-S1	702.78	701.89	0.0066	135	--	--	--	
IH41	712A-S1	712-S1	701.89	701.79	0.0066	15	--	--	--	
IH41	712-S1	713-S1	701.79	701.60	0.0067	27	--	--	--	
IH41	718-S1	716-S1	700.96	700.93	0.0050	6	--	--	--	
IH41	810-S1	811-S1	712.50	712.42	0.0050	15	--	--	--	
IH41	812-S1	813-S1	716.50	716.42	0.0050	--	15	--	--	
IH41	814-S1	812-S1	717.53	716.50	0.0033	--	314	--	--	
IH41	819-S1	814-S1	719.04	717.53	0.0050	--	303	--	--	
IH41	86-S1	85-S1	712.00	711.95	0.0050	11	--	--	--	
IH41	87-S1	88-S1	709.74	709.64	0.0050	19	--	--	--	
IH41	89-S1	810-S1	712.53	712.50	0.0051	5	--	--	--	
IH41	91-S1	93-S1	721.51	720.98	0.0050	106	--	--	--	
IH41	94-S1	93-S1	720.31	720.10	0.0100	--	--	--	21	
IH41	93-S1	RS_9-20	718.98	718.84	0.0174	--	--	--	8	
IH41	97-S1	93-S1	723.57	720.98	0.0245	106	--	--	--	
IH41	713-S1	RS_7-15	699.19	699.16	0.0036	--	--	--	8	
IH41	716-S1	722-S1	700.93	700.78	0.0050	30	--	--	--	
IH41	722-S1	721-S1	700.01	699.90	0.0100	--	--	--	11	
IH41	723-S1	722-S1	702.98	702.85	0.0050	25	--	--	--	
IH41	7-20 ADJUSTING INLET	RS_7-19	704.29	701.81	0.0179	138	--	--	--	
IH41	RS_7-14	713-S1	701.16	700.19	0.1210	--	--	8	--	
IH41	RS_7-19	718-S1	701.00	700.96	0.0050	8	--	--	--	
					STAGE 1 SUBTOTAL	654	632	8	48	
					STAGE 1 TOTAL	654	632	8	48	
1100-20-71 STAGE 3				(2)						
IH41	8-24 REPLACE INLET	8-23 REPLACE INLET	712.45	712.39	0.0050	12	--	--	--	PIPE INVERTS TO BE VERIFIED IN FIELD
IH41	8-23 REPLACE INLET	8-22 REPLACE INLET	712.39	712.33	0.0050	13	--	--	--	PIPE INVERTS TO BE VERIFIED IN FIELD
IH41	8-22 REPLACE INLET	810A-S3A	712.33	712.07	0.0050	51	--	--	--	PIPE INVERTS TO BE VERIFIED IN FIELD
					STAGE 3 SUBTOTAL	76	0	0	0	
					STAGE 3 TOTAL	76	0	0	0	
					1100-20-71 PROJECT	730	632	8	48	
						(2)				

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STORM SEWER STRUCTURES

							522.1018	522.1024	522.1042	611.0642	611.0610	611.2005	611.2006	611.2007	611.2008	
							APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE			INLET COVERS		MANHOLES				
LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	18-INCH EACH	24-INCH EACH	42-INCH EACH	TYPE MS EACH	TYPE BW EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	7-FT DIAMETER EACH	8-FT DIAMETER EACH	
IH41	5-5 REPLACE INLET	247+02.99	2.00' LT	730.16	--	--	--	--	--	--	1	--	--	--	--	
IH41	5-6 REPLACE INLET	247+02.92	2.00' RT	730.17	--	--	--	--	--	--	1	--	--	--	--	
IH41	5-7 REPLACE INLET	250+02.46	2.00' RT	727.15	--	--	--	--	--	--	1	--	--	--	--	
IH41	5-8 REPLACE INLET	252+51.58	1.90' RT	724.75	--	--	--	--	--	--	1	--	--	--	--	
IH41	5-9 REPLACE INLET	254+82.51	2.00' RT	722.30	--	--	--	--	--	--	1	--	--	--	--	
IH41	6-1 REPLACE INLET	273+98.81	2.00' LT	718.14	--	--	--	--	--	--	1	--	--	--	--	
IH41	6-2 REPLACE INLET	273+99.37	2.00' RT	718.29	--	--	--	--	--	--	1	--	--	--	--	
IH41	6-3 REPLACE INLET	276+47.39	2.00' LT	716.00	--	--	--	--	--	--	1	--	--	--	--	
IH41	6-4 REPLACE INLET	276+48.41	2.00' RT	715.99	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-1 REPLACE INLET	280+00.04	2.78' LT	714.00	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-10 REPLACE INLET	296+04.95	2.52' RT	711.34	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-2 REPLACE INLET	280+01.17	2.61' RT	714.28	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-3 REPLACE INLET	283+52.18	4.03' LT	711.70	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-4 REPLACE INLET	283+54.13	4.34' RT	711.76	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-5 REPLACE INLET	286+77.86	3.04' LT	709.97	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-6 REPLACE INLET	286+78.50	2.66' RT	709.98	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-7 REPLACE INLET	293+00.95	3.41' LT	709.59	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-8 REPLACE INLET	293+01.71	2.79' RT	709.70	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-9 REPLACE INLET	296+04.27	2.82' LT	711.16	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-25 REPLACE INLET	289+75.35	4.24' RT	708.11	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-26 REPLACE INLET	289+74.84	4.47' LT	708.19	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-27 REPLACE INLET	290+25.56	4.09' LT	707.75	--	--	--	--	--	--	1	--	--	--	--	
IH41	7-28 REPLACE INLET	290+28.10	4.44' RT	707.68	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-1 REPLACE INLET	299+01.49	3.69' LT	713.25	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-17 REPLACE INLET	316+00.19	4.21' LT	724.70	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-18 REPLACE INLET	316+01.27	4.17' RT	724.74	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-2 REPLACE INLET	299+04.52	3.78' RT	713.22	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-20 REPLACE INLET	318+51.57	4.01' LT	725.94	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-21 REPLACE INLET	318+52.85	4.10' RT	725.87	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-3 REPLACE INLET	301+82.02	3.58' LT	715.01	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-4 REPLACE INLET	301+82.98	3.80' RT	715.16	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-5 REPLACE INLET	304+63.42	8.75' RT	717.51	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-5A REPLACE INLET	304+63.37	3.71' LT	716.79	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-22 REPLACE INLET	307+80.26	0.63' LT	718.36	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-23 REPLACE INLET	307+92.91	3.79' RT	719.16	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-24 REPLACE INLET	307+92.71	8.15' LT	719.18	--	--	--	--	--	--	1	--	--	--	--	
IH41	8-25 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	8-26 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	9-10 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	9-11 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	9-15 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	9-16 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	9-17 REPLACE IN				--	--	--	--	--	--	1	--	--	--	--	
IH41	9-18 REPLACE INLET	329+56.66	4.18' RT	756.92	--	--	--	--	--	--	1	--	--	--	--	
IH41	9-19 REPLACE INLET	332+53.08	3.98' LT	758.69	--	--	--	--	--	--	1	--	--	--	--	
IH41	9-5 REPLACE INLET	321+12.75	4.07' LT	728.21	--	--	--	--	--	--	1	--	--	--	--	
IH41	9-6 REPLACE INLET	321+14.27	4.32' RT	728.02	--	--	--	--	--	--	1	--	--	--	--	
IH41	810A-S3A	307+29.42	0.80' LT	712.07	--	--	1	--	--	--	--	--	--	--	--	
						STAGE 3 SUBTOTAL	1	0	0	0	68	0	0	0	0	0
						1100-20-71 STAGE 3 TOTAL	1	0	0	0	68	0	0	0	0	
						1100-20-71 PROJECT TOTAL	4	1	1	8	83	1	1	1	1	

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							611.3004	611.3901	611.3902		611.8115	
							INLETS					
LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	4-FT DIAMETER EACH	MEDIAN 1 GRATE EACH	MEDIAN 2 GRATE EACH		ADJUSTING INLET COVERS EACH	COMMENTS
IH41	5-5 REPLACE INLET	247+02.99	2.00' LT	730.16	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	5-6 REPLACE INLET	247+02.92	2.00' RT	730.17	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	5-7 REPLACE INLET	250+02.46	2.00' RT	727.15	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	5-8 REPLACE INLET	252+51.58	1.90' RT	724.75	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	5-9 REPLACE INLET	254+82.51	2.00' RT	722.30	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	6-1 REPLACE INLET	273+98.81	2.00' LT	718.14	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	6-2 REPLACE INLET	273+99.37	2.00' RT	718.29	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	6-3 REPLACE INLET	276+47.39	2.00' LT	716.00	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	6-4 REPLACE INLET	276+48.41	2.00' RT	715.99	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-1 REPLACE INLET	280+00.04	2.78' LT	714.00	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-10 REPLACE INLET	296+04.95	2.52' RT	711.34	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-2 REPLACE INLET	280+01.17	2.61' RT	714.28	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-3 REPLACE INLET	283+52.18	4.03' LT	711.70	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-4 REPLACE INLET	283+54.13	4.34' RT	711.76	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-5 REPLACE INLET	286+77.86	3.04' LT	709.97	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-6 REPLACE INLET	286+78.50	2.66' RT	709.98	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-7 REPLACE INLET	293+00.95	3.41' LT	709.59	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-8 REPLACE INLET	293+01.71	2.79' RT	709.70	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-9 REPLACE INLET	296+04.27	2.82' LT	711.16	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-25 REPLACE INLET	289+75.35	4.24' RT	708.11	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-26 REPLACE INLET	289+74.84	4.47' LT	708.19	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-27 REPLACE INLET	290+25.56	4.09' LT	707.75	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	7-28 REPLACE INLET	290+28.10	4.44' RT	707.68	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-1 REPLACE INLET	299+01.49	3.69' LT	713.25	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-17 REPLACE INLET	316+00.19	4.21' LT	724.70	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-18 REPLACE INLET	316+01.27	4.17' RT	724.74	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-2 REPLACE INLET	299+04.52	3.78' RT	713.22	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-20 REPLACE INLET	318+51.57	4.01' LT	725.94	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-21 REPLACE INLET	318+52.85	4.10' RT	725.87	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-3 REPLACE INLET	301+82.02	3.58' LT	715.01	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-4 REPLACE INLET	301+82.98	3.80' RT	715.16	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-5 REPLACE INLET	304+63.42	8.75' RT	717.51	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-5A REPLACE INLET	304+63.37	3.71' LT	716.79	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-22 REPLACE INLET	307+80.26	0.63' LT	718.36	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-23 REPLACE INLET	307+92.91	3.79' RT	719.16	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-24 REPLACE INLET	307+92.71	8.15' LT	719.18	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-25 REPLACE INLET	311+05.06	4.57' RT	720.95	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	8-26 REPLACE INLET	314+00.24	4.09' RT	723.22	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-10 RE			733.99	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-11 RE			734.20	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-15 RE			742.49	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-16 RE			742.76	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-17 RE			750.72	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-18 RE			750.92	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-19 RE			758.69	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-5 RE			728.21	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	9-6 REPLACE INLET	321+14.27	4.32' RT	728.02	--	--	1	--	--		--	SEE RECONNECT STORM SEWER SPV
IH41	810A-S3A	307+29.42	0.80' LT	712.07	--	--	--	--	--		--	EW LOCATION AND INVERTS TO BE FIELD VERIFIED
						STAGE 3 SUBTOTAL	68	0	0	0	0	
						1100-20-71 STAGE 3 TOTAL	68	0	0		0	
						1100-20-71 PROJECT TOTAL	80	2	3		1	

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September 26, 2024

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Revised Sheet
September 26, 2024

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RECONNECT STORM SEWER

STAGE	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.8000 RECONNECT STORM SEWER EACH	NOTES
PROJECT 1100-20-71 STAGE 1						
1	IH41	RS_7-14	290+23.27	75.65' LT	1	
1	IH41	RS_7-15	290+27.51	61.02' LT	1	
1	IH41	RS_7-19	290+66.67	69.09' RT	1	
1	IH41	RS_9-20	321+02.07	67.01' RT	1	
1	IH41	814-S1	314+00.43	75.00' RT	1	
PROJECT 1100-20-71 STAGE 1 TOTALS					5	
PROJECT 1100-20-71 STAGE 3						
3	IH41	10-1 REPLACE INLET	337+31.83	8.77' LT	1	
3	IH41	10-2 REPLACE INLET	340+75.27	4.19' LT	1	
3	IH41	10-3 REPLACE INLET	340+76.85	4.47' RT	1	
3	IH41	10-4 REPLACE INLET	341+24.36	4.09' LT	1	
3	IH41	10-5 REPLACE INLET	341+25.36	4.41' RT	1	
3	IH41	10-6 REPLACE INLET	344+23.91	3.78' LT	1	
3	IH41	10-7 REPLACE INLET	344+25.47	4.23' RT	1	
3	IH41	10-8 REPLACE INLET	347+26.26	3.75' LT	1	
3	IH41	10-9 REPLACE INLET	347+26.73	6.51' RT	1	
3	IH41	5-10 REPLACE INLET	258+26.81	2.00' RT	1	
3	IH41	5-10A REPLACE INLET	258+26.52	3.93' LT	1	
3	IH41	5-11 REPLACE INLET	261+48.77	2.00' LT	1	
3	IH41	5-12 REPLACE INLET	261+49.08	2.00' RT	1	
3	IH41	5-13 REPLACE INLET	263+26.61	2.00' LT	1	
3	IH41	5-14 REPLACE INLET	263+76.65	2.46' LT	1	
3	IH41	5-16 REPLACE INLET	264+23.61	2.00' LT	1	
3	IH41	5-17 REPLACE INLET	266+49.76	2.00' LT	1	
3	IH41	5-18 REPLACE INLET	269+46.81	2.00' LT	1	
3	IH41	5-19 REPLACE INLET	269+46.94	2.00' RT	1	
3	IH41	5-3 REPLACE INLET	243+50.68	2.00' LT	1	
3	IH41	5-4 REPLACE INLET	243+51.86	2.00' RT	1	
3	IH41	5-5 REPLACE INLET	247+02.99	2.00' LT	1	
3	IH41	5-6 REPLACE INLET	247+02.92	2.00' RT	1	
3	IH41	5-7 REPLACE INLET	250+02.46	2.00' RT	1	
3	IH41	5-8 REPLACE INLET	252+51.58	1.90' RT	1	
3	IH41	5-9 REPLACE INLET	254+82.51	2.00' RT	1	
3	IH41	6-1 REPLACE INLET	273+98.81	2.00' LT	1	
3	IH41	6-2 REPLACE INLET	273+99.37	2.00' RT	1	
3	IH41	6-3 REPLACE INLET	276+47.39	2.00' LT	1	
3	IH41	6-4 REPLACE INLET	276+48.41	2.00' RT	1	
3	IH41	7-1 REPLACE INLET	280+00.04	2.78' LT	1	
3	IH41	7-10 REPLACE INLET	296+04.95	2.52' RT	1	
3	IH41	7-2 REPLACE INLET	280+01.17	2.61' RT	1	
3	IH41	7-3 REPLACE INLET	283+52.18	4.03' LT	1	
3	IH41	7-4 REPLACE INLET	283+54.13	4.34' RT	1	
3	IH41	7-5 REPLACE INLET				
3	IH41	7-6 REPLACE INLET				
3	IH41	7-7 REPLACE INLET				
3	IH41	7-8 REPLACE INLET				
3	IH41	7-9 REPLACE INLET				
3	IH41	7-25 REPLACE INLET				
3	IH41	7-26 REPLACE INLET				
3	IH41	7-27 REPLACE INLET	290+25.56	4.09' LT	1	
3	IH41	7-28 REPLACE INLET	290+28.10	4.44' RT	1	
3	IH41	8-1 REPLACE INLET	299+01.49	3.69' LT	1	
3	IH41	8-17 REPLACE INLET	316+00.19	4.21' LT	1	
3	IH41	8-18 REPLACE INLET	316+01.27	4.17' RT	1	

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RECONNECT STORM SEWER

STAGE	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.8000 RECONNECT STORM SEWER EACH	NOTES
PROJECT 1100-20-71 STAGE 3 (CONT.)						
3	IH41	8-2 REPLACE INLET	299+04.52	3.78' RT	1	
3	IH41	8-20 REPLACE INLET	318+51.57	4.01' LT	1	
3	IH41	8-21 REPLACE INLET	318+52.85	4.10' RT	1	
3	IH41	8-3 REPLACE INLET	301+82.02	3.58' LT	1	
3	IH41	8-4 REPLACE INLET	301+82.98	3.80' RT	1	
3	IH41	8-5 REPLACE INLET	304+63.42	8.75' RT	1	
3	IH41	8-5A REPLACE INLET	304+63.37	3.71' LT	1	
3	IH41	8-22 REPLACE INLET	307+80.26	0.63' LT	3	INCLUDES NEW PIPES AT 8-22, 8-23, 8-24
3	IH41	8-23 REPLACE INLET	307+92.91	3.79' RT	2	
3	IH41	8-24 REPLACE INLET	307+92.71	8.15' LT	1	
3	IH41	8-25 REPLACE INLET	311+05.06	4.57' RT	1	
3	IH41	8-26 REPLACE INLET	314+00.24	4.09' RT	1	
3	IH41	9-10 REPLACE INLET	323+49.78	4.30' LT	1	
3	IH41	9-11 REPLACE INLET	323+50.71	4.12' RT	1	
3	IH41	9-15 REPLACE INLET	326+52.67	3.83' LT	1	
3	IH41	9-16 REPLACE INLET	326+53.57	3.80' RT	1	
3	IH41	9-17 REPLACE INLET	329+49.10	4.47' LT	1	
3	IH41	9-18 REPLACE INLET	329+50.00	4.18' RT	1	
3	IH41	9-19 REPLACE INLET	332+53.08	3.98' LT	1	
3	IH41	9-5 REPLACE INLET	321+12.75	4.07' LT	1	
3	IH41	9-6 REPLACE INLET	321+14.27	4.32' RT	1	
PROJECT 1100-20-71 STAGE 3 TOTALS					70	2
1100-20-71 PROJECT TOTAL					75	2

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Revised Sheet 430
September 26, 2024

PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 430	E

MARKERS CULVERT END

STRUCTURE ID	STATION	OFFSET	633.5200 MARKERS CULVERT END EACH
PROJECT 1100-20-71 STAGE 1			
–	245+44.78	120.92' LT	1
–	245+46.45	98.55' LT	1
–	248+0.55	101.94' RT	1
–	248+00.47	103.06' RT	1
–	248+01.30	101.87' RT	1
–	249+07.27	107.11' RT	1
–	250+00.25	71.45' LT	
–	254+82.93	163.85' RT	1
–	261+92.24	3.65' LT	1
–	262+04.93	0.25' RT	1
–	277+05.94	144.66' RT	1
–	282+73.64	124.99' RT	1
–	293+67.07	266.51' RT	1
–	299+51.20	159.94' RT	1
88-S1	304+32.36	95.82' RT	1
85-S1	304+77.28	86.61' LT	1
811-S1	308+08.19	95.90' RT	1
–	308+26.56	101.05' LT	1
–	310+43.76	94.57' RT	1
813-S1	310+90.13	92.00' RT	1
–	311+73.36	124.54' RT	1
–	314+04.29	96.53' RT	1
–	323+10.79	91.78' RT	
–	315+39.49	83.03' RT	1
–	317+84.74	83.50' RT	1
–	320+37.02	94.57' RT	1
–	321+05.50	130.67' LT	1
94-S1	321+01.48	95.61' RT	1
–	323+11.13	91.77' RT	1
–	324+97.99	147.34' LT	1
–	328+12.21	131.06' RT	1
–	328+29.97	168.12' LT	1
–	331+38.69	175.77' RT	1
–	332+77.84	195.26' LT	1
–	339+48.49	170.17' RT	1
–	340+46.99	167.49' RT	1
–	340+67.46	167.23' LT	1
–	342+12.17	132.49' LT	1
–	342+22.39	149.01' LT	1
–	343+71.84	163.97' RT	1
–	343+50.90	154.53' LT	1
–	344+55.65	159.40' RT	1
–	345+09.29	122.50' LT	1
–	345+46.54	130.40' LT	1
–	348+17.61	116.47' LT	1
PROJECT 1100-20-71 STAGE 1 TOTALS			43
PROJECT 1100-20-71 STAGE 3 TOTALS			
810A-S3A	307+29.42	0.80' LT	1 2
PROJECT 1100-20-71 STAGE 3 TOTALS			1
1100-20-71 PROJECT TOTAL			44 2

TEMPORARY STORM SEWER PLUG

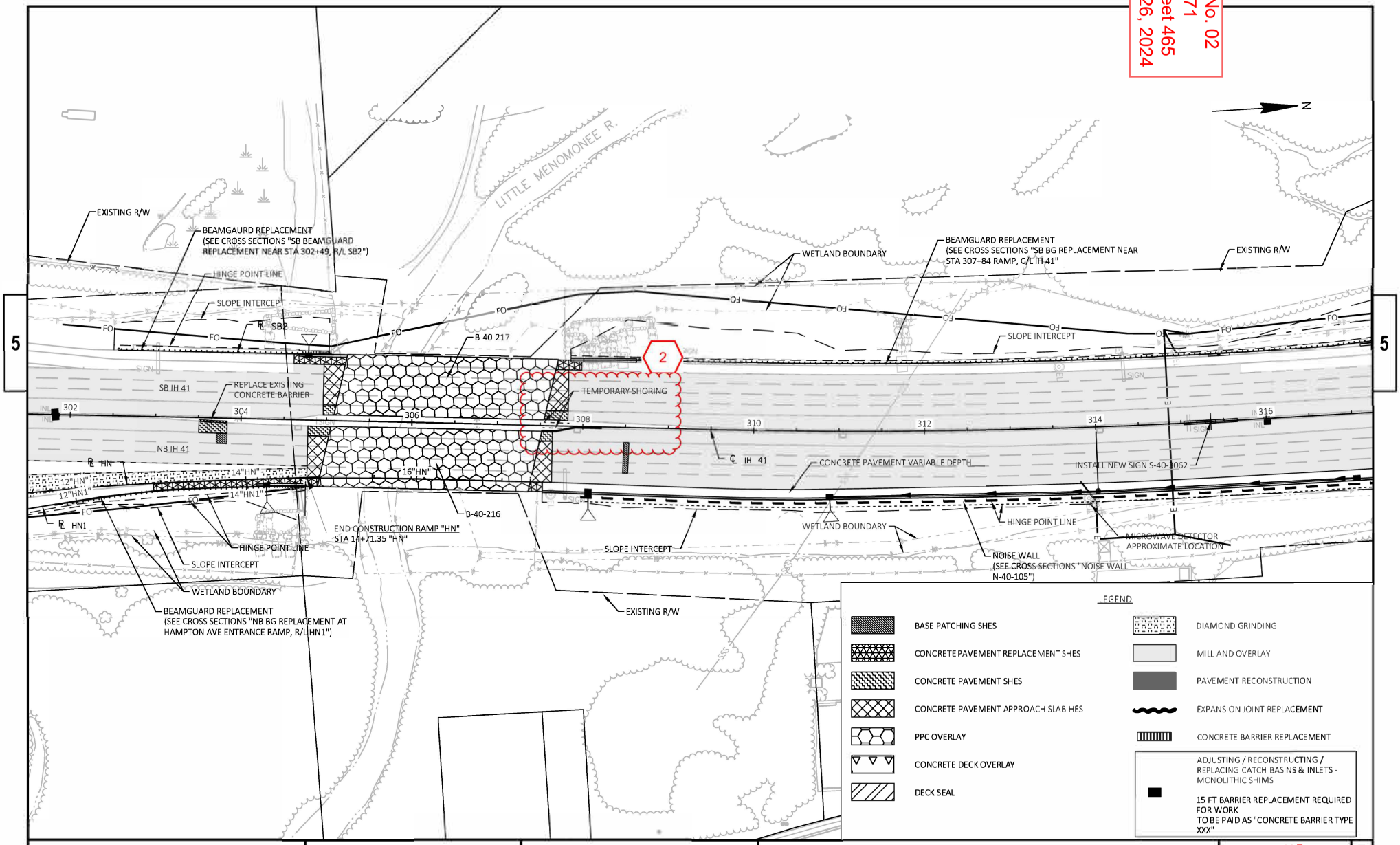
STAGE	ROADWAY	STATION	OFFSET	SPV.0060.8001 TEMPORARY STORM SEWER PLUG EACH	NOTES
PROJECT 1100-20-71 STAGE 1					
1	IH41	290+50.72	69.12' RT	1	
1	IH41	290+66.67	69.09' RT	1	
PROJECT 1100-20-71 STAGE 1 TOTALS				2	
1100-20-71 PROJECT TOTAL				2	

CLEANING STORM SEWER

ROADWAY	LOCATION	SPV.0090.8000 CLEANING STORM SEWER LF	NOTES
IH41	UNDISTRIBUTED	500	
1100-20-71 PROJECT TOTAL		500	

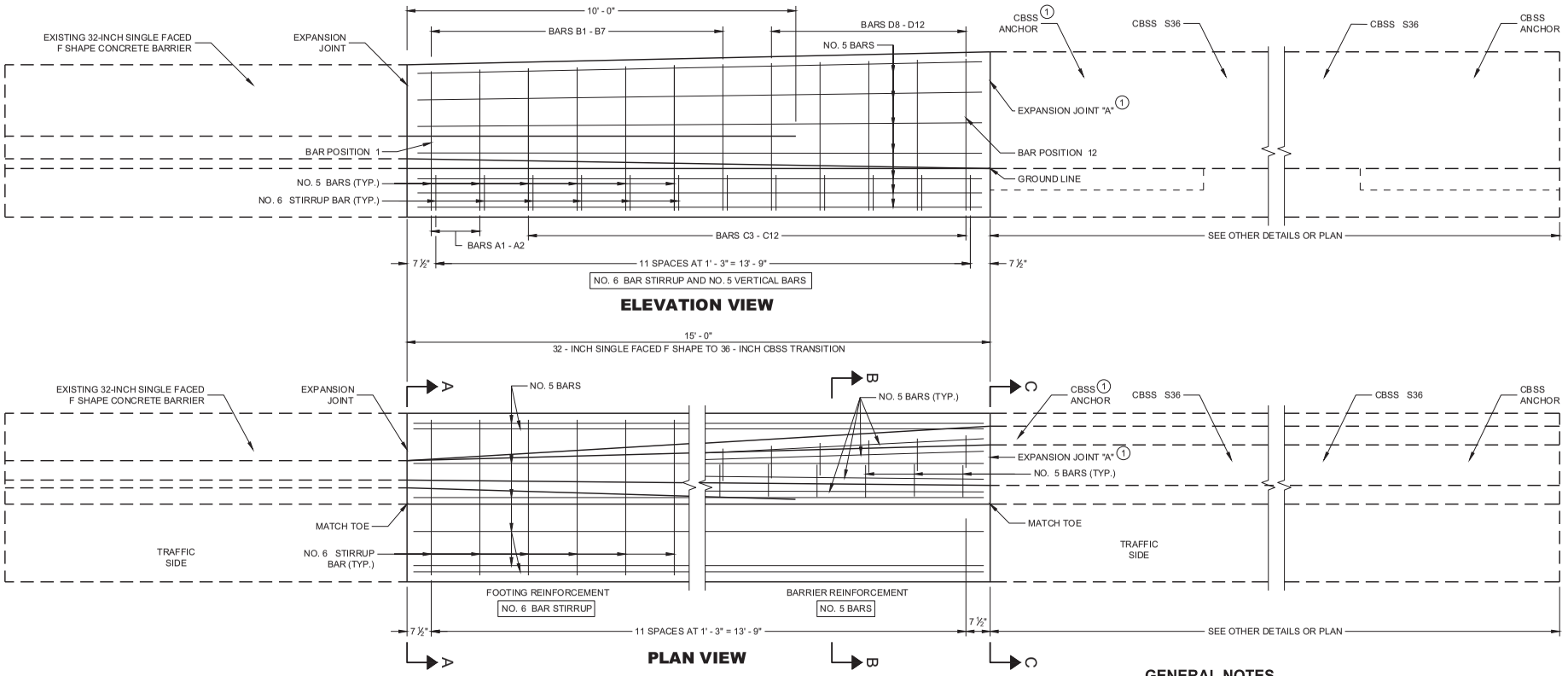
Addendum No. 02
ID 1100-20-71
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September 26, 2024

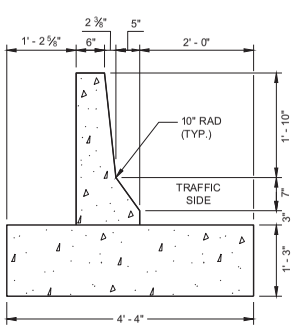
Addendum No. 02
ID 1100-20-71
Revised Sheet 465
September 26, 2024



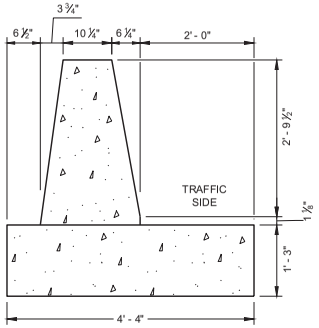
PROJECT NO: 1100-20-71	HWY: IH 41	COUNTY: MILWAUKEE	PLAN SHEETS	SHEET 465	E

FILE NAME : N:\PDS\C3D\11002000\SHEETSPLAN\11002071\C3D 2018\11002001_050201-PN.DWG
LAYOUT NAME - 050206-pn
PLOT DATE : 9/19/2024 11:44 AM
PLOT BY : CASTRO, JOEL
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

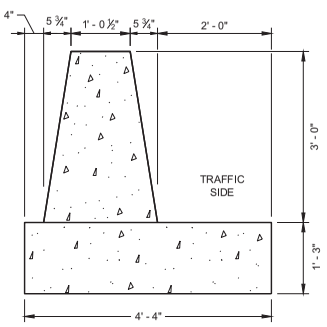




SECTION A - A



SECTION B - B



SECTION C - C

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

(1) EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

Addendum No. 02
ID 1100-20-71
Added Sheet 581A
September 26, 2024

32 - INCH SINGLE FACED F SHAPE CONCRETE BARRER TO 36 - INCH SINGLE SLOPE CONCRETE BARRIER TRANSITION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

581A

6

6

SDD 14B36 - 02c

SDD 14B36 - 02c

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	201.0205 Grubbing	103.000 STA	_____.____	_____.____
0004	203.0220 Removing Structure (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0006	203.0220 Removing Structure (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0008	203.0220 Removing Structure (structure) 0106. C-40-47	1.000 EACH	_____.____	_____.____
0010	203.0220 Removing Structure (structure) 0107. N-40-88	1.000 EACH	_____.____	_____.____
0012	203.0330 Debris Containment (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0014	203.0330 Debris Containment (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0016	203.0335 Debris Containment Over Waterway (structure) 0101. B-40-216	1.000 EACH	_____.____	_____.____
0018	203.0335 Debris Containment Over Waterway (structure) 0102. B-40-217	1.000 EACH	_____.____	_____.____
0020	204.0100 Removing Concrete Pavement	12,564.000 SY	_____.____	_____.____
0022	204.0109.S Removing Concrete Surface Partial Depth	285,943.000 SF	_____.____	_____.____
0024	204.0115 Removing Asphaltic Surface Butt Joints	366.000 SY	_____.____	_____.____
0026	204.0120 Removing Asphaltic Surface Milling	206,154.000 SY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0028	204.0126.S Removing Asphaltic Longitudinal Notched Wedge Joint Milling	43,435.000 LF	_____.____	_____.____
0030	204.0150 Removing Curb & Gutter	1,076.000 LF	_____.____	_____.____
0032	204.0157 Removing Concrete Barrier	5,780.000 LF	_____.____	_____.____
0034	204.0165 Removing Guardrail	5,357.000 LF	_____.____	_____.____
0036	204.0170 Removing Fence	1,143.000 LF	_____.____	_____.____
0038	204.0175 Removing Concrete Slope Paving	450.000 SY	_____.____	_____.____
0040	204.0195 Removing Concrete Bases	27.000 EACH	_____.____	_____.____
0042	204.0246 Removing Ancillary Structure (structure) 0001. S-40-237	1.000 EACH	_____.____	_____.____
0044	204.0246 Removing Ancillary Structure (structure) 0006. S-40-400	1.000 EACH	_____.____	_____.____
0046	204.0246 Removing Ancillary Structure (structure) 0010. S-40-238	1.000 EACH	_____.____	_____.____
0048	204.0246 Removing Ancillary Structure (structure) 0011. S-40-239	1.000 EACH	_____.____	_____.____
0050	204.0291.S Abandoning Sewer	3.620 CY	_____.____	_____.____
0052	204.9060.S Removing (item description) 0100. Traffic Signals IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0054	204.9060.S Removing (item description) 0101. Loop Detect Wire & Cable IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0056	204.9060.S Removing (item description) 1001. Removing Lighting Units	14.000 EACH	_____.____	_____.____
0058	204.9060.S Removing (item description) 1002. Concrete Bases Type HF3	5.000 EACH	_____.____	_____.____
0060	204.9060.S Removing (item description) 1003. Poles Wood 60-FT	1.000 EACH	_____.____	_____.____
0062	204.9060.S Removing (item description) 1004. Poles Wood 60-FT and Floodlights	8.000 EACH	_____.____	_____.____
0064	205.0100 Excavation Common	19,070.000 CY	_____.____	_____.____
0066	206.1001 Excavation for Structures Bridges (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0068	206.1001 Excavation for Structures Bridges (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0070	206.2001 Excavation for Structures Culverts (structure) 0106. C-40-47	1.000 EACH	_____.____	_____.____
0072	210.1500 Backfill Structure Type A	960.000 TON	_____.____	_____.____
0074	213.0100 Finishing Roadway (project) 0001. 1100-20-70	1.000 EACH	_____.____	_____.____
0076	213.0100 Finishing Roadway (project) 0002. 1100-20-71	1.000 EACH	_____.____	_____.____
0078	305.0110 Base Aggregate Dense 3/4-Inch	146.000 TON	_____.____	_____.____
0080	305.0120 Base Aggregate Dense 1 1/4-Inch	7,901.000 TON	_____.____	_____.____
0082	312.0110 Select Crushed Material	19,387.000 TON	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	390.0100 Removing Pavement for Base Patching	9,414.000 CY	_____.____	_____.____
0086	390.0305 Base Patching Concrete HES	1,542.000 CY	_____.____	_____.____
0088	390.0405 Base Patching Concrete SHES	1,427.000 CY	_____.____	_____.____
0090	415.0060 Concrete Pavement 6-Inch	516.000 SY	_____.____	_____.____
0092	415.0080 Concrete Pavement 8-Inch	2,061.000 SY	_____.____	_____.____
0094	415.0090 Concrete Pavement 9-Inch	15.000 SY	_____.____	_____.____
0096	415.0100 Concrete Pavement 10-Inch	4,833.000 SY	_____.____	_____.____
0098	415.1410 Concrete Pavement Approach Slab HES	1,841.000 SY	_____.____	_____.____
0100	416.0610 Drilled Tie Bars	5,302.000 EACH	_____.____	_____.____
0102	416.0620 Drilled Dowel Bars	16,739.000 EACH	_____.____	_____.____
0104	416.1710 Concrete Pavement Repair	857.000 SY	_____.____	_____.____
0106	416.1715 Concrete Pavement Repair SHES	16.000 SY	_____.____	_____.____
0108	416.1720 Concrete Pavement Replacement	129.000 SY	_____.____	_____.____
0110	416.1725 Concrete Pavement Replacement SHES	1,018.000 SY	_____.____	_____.____
0112	420.1000 Continuous Diamond Grinding Concrete Pavement	14,122.000 SY	_____.____	_____.____
0114	450.4000 HMA Cold Weather Paving	13,922.000 TON	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0116	455.0605 Tack Coat	26,085.000 GAL	_____._____	_____._____
0118	460.0105.S HMA Percent Within Limits (PWL) Test Strip Volumetrics	1.000 EACH	_____._____	_____._____
0120	460.0115.S HMA Pavement Test Strip Volumetrics	1.000 EACH	_____._____	_____._____
0122	460.0120.S HMA Pavement Test Strip Density	1.000 EACH	_____._____	_____._____
0124	460.2000 Incentive Density HMA Pavement	13,010.000 DOL	1.00000	13,010.00
0126	460.2007 Incentive Density HMA Pavement Longitudinal Joints	7,781.000 DOL	1.00000	7,781.00
0130	460.7423 HMA Pavement 3 HT 58-28 H	33,802.000 TON	_____._____	_____._____
0132	460.8625 HMA Pavement 5 SMA 58-28 V	26,309.000 TON	_____._____	_____._____
0134	460.9000.S Material Transfer Vehicle	1.000 EACH	_____._____	_____._____
0136	502.0100 Concrete Masonry Bridges	973.000 CY	_____._____	_____._____
0138	502.0717.S Crack Sealing Epoxy	2,490.000 LF	_____._____	_____._____
0140	502.3101 Expansion Device	861.000 LF	_____._____	_____._____
0142	502.3200 Protective Surface Treatment	100.000 SY	_____._____	_____._____
0144	502.3205 Pigmented Surface Sealer Reseal	2,021.000 SY	_____._____	_____._____
0146	502.3210 Pigmented Surface Sealer	452.000 SY	_____._____	_____._____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0148	502.3215 Protective Surface Treatment Reseal	2,171.000 SY	_____.____	_____.____
0150	502.4204 Adhesive Anchors No. 4 Bar	64.000 EACH	_____.____	_____.____
0152	502.4205 Adhesive Anchors No. 5 Bar	874.000 EACH	_____.____	_____.____
0154	502.4206 Adhesive Anchors No. 6 Bar	42.000 EACH	_____.____	_____.____
0156	502.4209 Adhesive Anchors No. 9 Bar	14.000 EACH	_____.____	_____.____
0158	504.0100 Concrete Masonry Culverts	12.000 CY	_____.____	_____.____
0160	505.0400 Bar Steel Reinforcement HS Structures	5,730.000 LB	_____.____	_____.____
0162	505.0600 Bar Steel Reinforcement HS Coated Structures	184,830.000 LB	_____.____	_____.____
0164	505.0904 Bar Couplers No. 4	16.000 EACH	_____.____	_____.____
0166	505.0905 Bar Couplers No. 5	40.000 EACH	_____.____	_____.____
0168	505.0906 Bar Couplers No. 6	20.000 EACH	_____.____	_____.____
0170	506.0105 Structural Steel Carbon	17,030.000 LB	_____.____	_____.____
0172	506.0605 Structural Steel HS	209,300.000 LB	_____.____	_____.____
0174	506.2610 Bearing Pads Elastomeric Laminated	12.000 EACH	_____.____	_____.____
0176	506.3008 Welded Stud Shear Connectors 5/8x5-Inch	42.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0178	506.3020 Welded Stud Shear Connectors 7/8x7-Inch	1,936.000 EACH	_____.____	_____.____
0180	506.5000 Bearing Assemblies Fixed (structure) 0001. B-40-358	1.000 EACH	_____.____	_____.____
0182	506.5000 Bearing Assemblies Fixed (structure) 0002. B-40-359	2.000 EACH	_____.____	_____.____
0184	509.0301 Preparation Decks Type 1	127.000 SY	_____.____	_____.____
0186	509.0302 Preparation Decks Type 2	52.000 SY	_____.____	_____.____
0188	509.0310.S Sawing Pavement Deck Preparation Areas	1,430.000 LF	_____.____	_____.____
0190	509.0500 Cleaning Decks	9,402.000 SY	_____.____	_____.____
0192	509.1000 Joint Repair	347.000 SY	_____.____	_____.____
0194	509.1500 Concrete Surface Repair	548.000 SF	_____.____	_____.____
0196	509.2000 Full-Depth Deck Repair	8.000 SY	_____.____	_____.____
0198	509.2100.S Concrete Masonry Deck Repair	127.000 CY	_____.____	_____.____
0200	509.5100.S Polymer Overlay	4,738.000 SY	_____.____	_____.____
0202	509.9015.S Removing Polymer Overlay (structure) 0006. B-40-356	1,149.000 SY	_____.____	_____.____
0204	509.9015.S Removing Polymer Overlay (structure) 0007. B-40-357	1,149.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0206	509.9020.S Epoxy Crack Sealing	1,305.000 LF	_____.____	_____.____
0208	511.1200 Temporary Shoring (structure) 0008. B-40-358	1,200.000 SF	_____.____	_____.____
0210	511.1200 Temporary Shoring (structure) 0009. B-40-359	1,150.000 SF	_____.____	_____.____
0212	511.1300 Temporary Shoring (location) 0001. N-40-105	5,250.000 SF	_____.____	_____.____
0214	512.0500 Piling Steel Sheet Permanent Delivered	725.000 SF	_____.____	_____.____
0216	512.0600 Piling Steel Sheet Permanent Driven	710.000 SF	_____.____	_____.____
0218	516.0500 Rubberized Membrane Waterproofing	30.000 SY	_____.____	_____.____
0220	517.0601 Painting Epoxy System (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0222	517.0601 Painting Epoxy System (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0224	517.0901.S Preparation and Coating of Top Flanges (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0226	517.0901.S Preparation and Coating of Top Flanges (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0228	517.0901.S Preparation and Coating of Top Flanges (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0230	517.0901.S Preparation and Coating of Top Flanges (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0232	517.0901.S Preparation and Coating of Top Flanges (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0234	517.0901.S Preparation and Coating of Top Flanges (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0236	517.1801.S Structure Repainting Recycled Abrasive (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0238	517.1801.S Structure Repainting Recycled Abrasive (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0240	517.1801.S Structure Repainting Recycled Abrasive (structure) 0103. B-40-360	1.000 EACH	_____.____	_____.____
0242	517.1801.S Structure Repainting Recycled Abrasive (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0244	517.1801.S Structure Repainting Recycled Abrasive (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0246	517.3001.S Structure Overcoating Cleaning and Priming (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0248	517.3001.S Structure Overcoating Cleaning and Priming (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0250	517.4001.S Containment and Collection of Waste Materials (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0252	517.4001.S Containment and Collection of Waste Materials (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0254	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0256	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0258	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0103. B-40-360	1.000 EACH	_____.____	_____.____
0260	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0262	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0264	517.6001.S Portable Decontamination Facility	7.000 EACH	_____.____	_____.____
0266	520.8700 Cleaning Culvert Pipes	15.000 EACH	_____.____	_____.____
0268	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	9.000 EACH	_____.____	_____.____
0270	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	8.000 EACH	_____.____	_____.____
0272	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	2.000 EACH	_____.____	_____.____
0274	531.1100 Concrete Masonry Ancillary Structures Type NS	104.400 CY	_____.____	_____.____
0276	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	10,846.000 LB	_____.____	_____.____
0278	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	6,280.000 LB	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0280	531.2024 Drilling Shaft 24-Inch	170.000 LF	_____.____	_____.____
0282	531.2030 Drilling Shaft 30-Inch	60.000 LF	_____.____	_____.____
0284	531.2036 Drilling Shaft 36-Inch	320.000 LF	_____.____	_____.____
0286	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0288	531.6010 Foundation Two-Shaft Type FC-I (structure) 0003. S-40-3085	1.000 EACH	_____.____	_____.____
0290	531.6010 Foundation Two-Shaft Type FC-I (structure) 0012. S-40-3088	1.000 EACH	_____.____	_____.____
0292	531.6020 Foundation Two-Shaft Type FC-II (structure) 0002. S-40-3084	1.000 EACH	_____.____	_____.____
0294	531.6020 Foundation Two-Shaft Type FC-II (structure) 0004. S-40-3086	1.000 EACH	_____.____	_____.____
0296	531.6020 Foundation Two-Shaft Type FC-II (structure) 0005. S-40-3087	1.000 EACH	_____.____	_____.____
0298	531.6020 Foundation Two-Shaft Type FC-II (structure) 0013. S-40-3089	1.000 EACH	_____.____	_____.____
0300	532.5020 Butterfly 2-Chord NS (structure) 0001. S-40-3060	1.000 EACH	_____.____	_____.____
0302	532.5020 Butterfly 2-Chord NS (structure) 0010. S-40-3061	1.000 EACH	_____.____	_____.____
0304	532.5020 Butterfly 2-Chord NS (structure) 0011. S-40-3062	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0306	532.6010 Truss Cantilever 4-Chord Type I (structure) 0003. S-40-3085	1.000 EACH	_____.____	_____.____
0308	532.6010 Truss Cantilever 4-Chord Type I (structure) 0012. S-40-3088	1.000 EACH	_____.____	_____.____
0310	532.6020 Truss Cantilever 4-Chord Type II (structure) 0002. S-40-3084	1.000 EACH	_____.____	_____.____
0312	532.6020 Truss Cantilever 4-Chord Type II (structure) 0004. S-40-3086	1.000 EACH	_____.____	_____.____
0314	532.6020 Truss Cantilever 4-Chord Type II (structure) 0005. S-40-3087	1.000 EACH	_____.____	_____.____
0316	532.6020 Truss Cantilever 4-Chord Type II (structure) 0013. S-40-3089	1.000 EACH	_____.____	_____.____
0318	532.6120 Truss Full Span 4-Chord Type II (structure) 0006. S-40-462	1.000 EACH	_____.____	_____.____
0320	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0001. N-40-105	39,200.000 SF	_____.____	_____.____
0322	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0002. N-40-88	26,125.000 SF	_____.____	_____.____
0324	601.0411 Concrete Curb & Gutter 30-Inch Type D	12.000 LF	_____.____	_____.____
0326	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	78.000 LF	_____.____	_____.____
0328	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	697.000 LF	_____.____	_____.____
0330	601.0590 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	80.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0332	602.3010 Concrete Surface Drains	2.000 CY	_____.____	_____.____
0334	603.0105 Concrete Barrier Single-Faced 32-Inch	1,346.000 LF	_____.____	_____.____
0336	603.1142 Concrete Barrier Type S42	6,491.000 LF	_____.____	_____.____
0338	603.1156 Concrete Barrier Type S56	360.000 LF	_____.____	_____.____
0340	603.1242 Concrete Barrier Type S42A	1,686.000 LF	_____.____	_____.____
0342	603.1342 Concrete Barrier Type S42B	30.000 LF	_____.____	_____.____
0344	603.1442 Concrete Barrier Type S42C	400.000 LF	_____.____	_____.____
0346	603.3213 Concrete Barrier Transition Type F32SF to S36	10.000 EACH	_____.____	_____.____
0348	603.3535 Concrete Barrier Transition Type S36 to S42	10.000 EACH	_____.____	_____.____
0350	603.3559 Concrete Barrier Transition Type S42 to S56	8.000 EACH	_____.____	_____.____
0352	603.8000 Concrete Barrier Temporary Precast Delivered	42,549.000 LF	_____.____	_____.____
0354	603.8125 Concrete Barrier Temporary Precast Installed	72,050.000 LF	_____.____	_____.____
0356	604.0400 Slope Paving Concrete	450.000 SY	_____.____	_____.____
0358	604.0500 Slope Paving Crushed Aggregate	442.000 SY	_____.____	_____.____
0360	604.9015.S Reseal Crushed Aggregate Slope Paving	2,326.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0362	606.0200 Riprap Medium	370.000 CY	_____.____	_____.____
0364	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	12.000 LF	_____.____	_____.____
0366	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	905.000 LF	_____.____	_____.____
0368	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	3,470.000 LF	_____.____	_____.____
0370	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	8.000 LF	_____.____	_____.____
0372	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	48.000 LF	_____.____	_____.____
0374	611.0420 Reconstructing Manholes	1.000 EACH	_____.____	_____.____
0376	611.0530 Manhole Covers Type J	1.000 EACH	_____.____	_____.____
0378	611.0535 Manhole Covers Type J-Special	1.000 EACH	_____.____	_____.____
0380	611.0610 Inlet Covers Type BW	161.000 EACH	_____.____	_____.____
0382	611.0624 Inlet Covers Type H	1.000 EACH	_____.____	_____.____
0384	611.0642 Inlet Covers Type MS	9.000 EACH	_____.____	_____.____
0386	611.2005 Manholes 5-FT Diameter	11.000 EACH	_____.____	_____.____
0388	611.2006 Manholes 6-FT Diameter	1.000 EACH	_____.____	_____.____
0390	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0392	611.2008 Manholes 8-FT Diameter	1.000 EACH	_____.____	_____.____
0394	611.3004 Inlets 4-FT Diameter	151.000 EACH	_____.____	_____.____
0396	611.3901 Inlets Median 1 Grate	2.000 EACH	_____.____	_____.____
0398	611.3902 Inlets Median 2 Grate	4.000 EACH	_____.____	_____.____
0400	611.8115 Adjusting Inlet Covers	1.000 EACH	_____.____	_____.____
0402	611.8120.S Cover Plates Temporary	2.000 EACH	_____.____	_____.____
0404	612.0206 Pipe Underdrain Unperforated 6-Inch	55.000 LF	_____.____	_____.____
0406	612.0406 Pipe Underdrain Wrapped 6-Inch	609.000 LF	_____.____	_____.____
0408	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	1.000 EACH	_____.____	_____.____
0410	614.0200 Steel Thrie Beam Structure Approach	21.000 LF	_____.____	_____.____
0412	614.0305 Steel Plate Beam Guard Class A	175.000 LF	_____.____	_____.____
0414	614.0905 Crash Cushions Temporary	11.000 EACH	_____.____	_____.____
0416	614.0925 Salvaged Guardrail End Treatments	16.000 EACH	_____.____	_____.____
0418	614.2300 MGS Guardrail 3	4,648.000 LF	_____.____	_____.____
0420	614.2330 MGS Guardrail 3 K	38.000 LF	_____.____	_____.____
0422	614.2500 MGS Thrie Beam Transition	553.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0424	614.2610 MGS Guardrail Terminal EAT	16.000 EACH	_____.____	_____.____
0426	614.2620 MGS Guardrail Terminal Type 2	4.000 EACH	_____.____	_____.____
0428	616.0206 Fence Chain Link 6-FT	1,123.000 LF	_____.____	_____.____
0430	616.0208 Fence Chain Link 8-FT	525.000 LF	_____.____	_____.____
0432	616.0329 Gates Chain Link (width) 0001. 3' width	4.000 EACH	_____.____	_____.____
0434	616.0700.S Fence Safety	50.000 LF	_____.____	_____.____
0436	618.0100 Maintenance and Repair of Haul Roads (project) 0001. 1100-20-70	1.000 EACH	_____.____	_____.____
0438	618.0100 Maintenance and Repair of Haul Roads (project) 0002. 1100-20-71	1.000 EACH	_____.____	_____.____
0440	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0442	623.0200 Dust Control Surface Treatment	29,011.000 SY	_____.____	_____.____
0444	624.0100 Water	190.000 MGAL	_____.____	_____.____
0446	625.0500 Salvaged Topsoil	94,900.000 SY	_____.____	_____.____
0448	627.0200 Mulching	13,800.000 SY	_____.____	_____.____
0450	628.1504 Silt Fence	12,620.000 LF	_____.____	_____.____
0452	628.1520 Silt Fence Maintenance	12,620.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0454	628.1905 Mobilizations Erosion Control	20.000 EACH	_____.____	_____.____
0456	628.1910 Mobilizations Emergency Erosion Control	12.000 EACH	_____.____	_____.____
0458	628.2004 Erosion Mat Class I Type B	81,100.000 SY	_____.____	_____.____
0460	628.6510 Soil Stabilizer Type B	20.000 ACRE	_____.____	_____.____
0462	628.7005 Inlet Protection Type A	17.000 EACH	_____.____	_____.____
0464	628.7020 Inlet Protection Type D	209.000 EACH	_____.____	_____.____
0466	628.7504 Temporary Ditch Checks	1,530.000 LF	_____.____	_____.____
0468	628.7515.S Stone Ditch Checks	156.000 CY	_____.____	_____.____
0470	628.7560 Tracking Pads	9.000 EACH	_____.____	_____.____
0472	629.0210 Fertilizer Type B	59.000 CWT	_____.____	_____.____
0474	630.0160 Seeding Mixture No. 60	40.000 LB	_____.____	_____.____
0476	630.0170 Seeding Mixture No. 70	230.000 LB	_____.____	_____.____
0478	630.0200 Seeding Temporary	2,760.000 LB	_____.____	_____.____
0480	630.0500 Seed Water	2,200.000 MGAL	_____.____	_____.____
0482	633.1000 Delineators Barrier Wall	158.000 EACH	_____.____	_____.____
0484	633.5200 Markers Culvert End	70.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0486	634.0618 Posts Wood 4x6-Inch X 18-FT	143.000 EACH	_____.____	_____.____
0488	634.0622 Posts Wood 4x6-Inch X 22-FT	9.000 EACH	_____.____	_____.____
0490	635.0200 Sign Supports Structural Steel HS	11,600.000 LB	_____.____	_____.____
0492	637.1220 Signs Type I Reflective SH	1,775.500 SF	_____.____	_____.____
0494	637.1230 Signs Type I Reflective F	381.250 SF	_____.____	_____.____
0496	637.2210 Signs Type II Reflective H	2,274.260 SF	_____.____	_____.____
0498	637.2230 Signs Type II Reflective F	811.750 SF	_____.____	_____.____
0500	638.2101 Moving Signs Type I	10.000 EACH	_____.____	_____.____
0502	638.2102 Moving Signs Type II	17.000 EACH	_____.____	_____.____
0504	638.2601 Removing Signs Type I	10.000 EACH	_____.____	_____.____
0506	638.2602 Removing Signs Type II	193.000 EACH	_____.____	_____.____
0508	638.3000 Removing Small Sign Supports	152.000 EACH	_____.____	_____.____
0510	638.3100 Removing Structural Steel Sign Supports	28.000 EACH	_____.____	_____.____
0512	643.0300 Traffic Control Drums	242,773.000 DAY	_____.____	_____.____
0514	643.0420 Traffic Control Barricades Type III	24,563.000 DAY	_____.____	_____.____
0516	643.0705 Traffic Control Warning Lights Type A	49,252.000 DAY	_____.____	_____.____

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0518	643.0715 Traffic Control Warning Lights Type C	48,973.000 DAY	_____.____	_____.____
0520	643.0800 Traffic Control Arrow Boards	1,342.000 DAY	_____.____	_____.____
0522	643.0900 Traffic Control Signs	100,448.000 DAY	_____.____	_____.____
0524	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.____	_____.____
0526	643.0920 Traffic Control Covering Signs Type II	34.000 EACH	_____.____	_____.____
0528	643.1000 Traffic Control Signs Fixed Message	1,473.000 SF	_____.____	_____.____
0530	643.1050 Traffic Control Signs PCMS	474.000 DAY	_____.____	_____.____
0532	643.1100.S Dynamic Late Merge System	410.000 DAY	_____.____	_____.____
0534	643.3165 Temporary Marking Line Paint 6-Inch	253,429.000 LF	_____.____	_____.____
0536	643.3265 Temporary Marking Line Paint 10-Inch	16,066.000 LF	_____.____	_____.____
0538	643.3760 Temporary Marking Raised Pavement Marker Type I	614.000 EACH	_____.____	_____.____
0540	643.4100 Traffic Control Interim Lane Closure	80.000 EACH	_____.____	_____.____
0542	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0544	644.1810 Temporary Pedestrian Barricade	240.000 LF	_____.____	_____.____
0546	645.0120 Geotextile Type HR	754.000 SY	_____.____	_____.____
0548	645.0130 Geotextile Type R	88.000 SY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0550	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	570.000 LF	_____.____	_____.____
0552	646.2020 Marking Line Epoxy 6-Inch	2,118.000 LF	_____.____	_____.____
0554	646.2025 Marking Line Grooved Black Epoxy 6-Inch	19,339.000 LF	_____.____	_____.____
0556	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	96,922.000 LF	_____.____	_____.____
0558	646.2050 Marking Line Grooved Permanent Tape 6-Inch	19,778.000 LF	_____.____	_____.____
0560	646.3040 Marking Line Grooved Wet Ref Epoxy 8-Inch	1,603.000 LF	_____.____	_____.____
0562	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	327.000 LF	_____.____	_____.____
0564	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	131.000 LF	_____.____	_____.____
0566	646.4050 Marking Line Grooved Permanent Tape 10-Inch	34,425.000 LF	_____.____	_____.____
0568	646.5020 Marking Arrow Epoxy	44.000 EACH	_____.____	_____.____
0570	646.5120 Marking Word Epoxy	25.000 EACH	_____.____	_____.____
0572	646.5220 Marking Symbol Epoxy	36.000 EACH	_____.____	_____.____
0574	646.5520 Marking Outfall Epoxy	51.000 EACH	_____.____	_____.____
0576	646.6120 Marking Stop Line Epoxy 18-Inch	643.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0578	646.6220 Marking Yield Line Epoxy 18-Inch	157.000 EACH	_____.____	_____.____
0580	646.7120 Marking Diagonal Epoxy 12-Inch	7,393.000 LF	_____.____	_____.____
0582	646.7220 Marking Chevron Epoxy 24-Inch	1,354.000 LF	_____.____	_____.____
0584	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,612.000 LF	_____.____	_____.____
0586	646.8220 Marking Island Nose Epoxy	1.000 EACH	_____.____	_____.____
0588	646.9000 Marking Removal Line 4-Inch	25,831.000 LF	_____.____	_____.____
0590	646.9002 Marking Removal Line 6-Inch	86,158.000 LF	_____.____	_____.____
0592	646.9055 Marking Removal Line Grooved Contrast Permanent Tape 4-Inch	14,592.000 LF	_____.____	_____.____
0594	646.9102 Marking Removal Line 10-Inch	4,700.000 LF	_____.____	_____.____
0596	646.9155 Marking Removal Line Grooved Contrast Permanent Tape 8-Inch	6,493.000 LF	_____.____	_____.____
0598	652.0125 Conduit Rigid Metallic 2-Inch	15.000 LF	_____.____	_____.____
0600	652.0135 Conduit Rigid Metallic 3-Inch	16.000 LF	_____.____	_____.____
0602	652.0215 Conduit Rigid Nonmetallic Schedule 40 1 1/4-Inch	225.000 LF	_____.____	_____.____
0604	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	3,795.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0606	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,166.000 LF	_____.____	_____.____
0608	652.0605 Conduit Special 2-Inch	32.000 LF	_____.____	_____.____
0610	652.0615 Conduit Special 3-Inch	1,344.000 LF	_____.____	_____.____
0612	652.0700.S Install Conduit into Existing Item	8.000 EACH	_____.____	_____.____
0614	652.0800 Conduit Loop Detector	706.000 LF	_____.____	_____.____
0616	653.0135 Pull Boxes Steel 24x36-Inch	4.000 EACH	_____.____	_____.____
0618	653.0140 Pull Boxes Steel 24x42-Inch	19.000 EACH	_____.____	_____.____
0620	653.0905 Removing Pull Boxes	24.000 EACH	_____.____	_____.____
0622	654.0101 Concrete Bases Type 1	5.000 EACH	_____.____	_____.____
0624	654.0105 Concrete Bases Type 5	1.000 EACH	_____.____	_____.____
0626	654.0110 Concrete Bases Type 10	2.000 EACH	_____.____	_____.____
0628	654.0115 Concrete Bases Type F	9.000 EACH	_____.____	_____.____
0630	654.0120 Concrete Bases Type 10-Special	1.000 EACH	_____.____	_____.____
0632	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.____	_____.____
0634	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0636	655.0230 Cable Traffic Signal 5-14 AWG	441.000 LF	_____.____	_____.____
0638	655.0240 Cable Traffic Signal 7-14 AWG	1,185.000 LF	_____.____	_____.____
0640	655.0260 Cable Traffic Signal 12-14 AWG	1,228.000 LF	_____.____	_____.____
0642	655.0515 Electrical Wire Traffic Signals 10 AWG	7,909.000 LF	_____.____	_____.____
0644	655.0525 Electrical Wire Traffic Signals 6 AWG	900.000 LF	_____.____	_____.____
0646	655.0610 Electrical Wire Lighting 12 AWG	3,762.000 LF	_____.____	_____.____
0648	655.0615 Electrical Wire Lighting 10 AWG	60.000 LF	_____.____	_____.____
0650	655.0625 Electrical Wire Lighting 6 AWG	32,665.000 LF	_____.____	_____.____
0652	655.0630 Electrical Wire Lighting 4 AWG	4,400.000 LF	_____.____	_____.____
0654	655.0640 Electrical Wire Lighting 1 AWG	18.000 LF	_____.____	_____.____
0656	655.0700 Loop Detector Lead In Cable	2,158.000 LF	_____.____	_____.____
0658	655.0800 Loop Detector Wire	2,428.000 LF	_____.____	_____.____
0660	656.0201 Electrical Service Meter Breaker Pedestal (location) 0001. IH 41 NB Ramps & CTH EE (W Hampton Ave)	1.000 EACH	_____.____	_____.____
0662	656.0401 Electrical Service Main Lugs Only Meter Pedestal (location) 0001. HL-40-CC	1.000 EACH	_____.____	_____.____
0664	656.0501 Electrical Service Breaker Disconnect Box (location) 0001. CCTV-40-0041	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0666	657.0100 Pedestal Bases	5.000 EACH	_____.____	_____.____
0668	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	6.000 EACH	_____.____	_____.____
0670	657.0375 Poles Type A	2.000 EACH	_____.____	_____.____
0672	657.0381 Poles Type F	9.000 EACH	_____.____	_____.____
0674	657.0420 Traffic Signal Standards Aluminum 13-FT	3.000 EACH	_____.____	_____.____
0676	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.____	_____.____
0678	657.0430 Traffic Signal Standards Aluminum 10-FT	1.000 EACH	_____.____	_____.____
0680	657.0620 Luminaire Arms Single Member 6-Inch Clamp 4-FT	4.000 EACH	_____.____	_____.____
0682	658.0173 Traffic Signal Face 3S 12-Inch	9.000 EACH	_____.____	_____.____
0684	658.0174 Traffic Signal Face 4S 12-Inch	3.000 EACH	_____.____	_____.____
0686	658.0416 Pedestrian Signal Face 16-Inch	4.000 EACH	_____.____	_____.____
0688	658.0500 Pedestrian Push Buttons	4.000 EACH	_____.____	_____.____
0690	658.5070 Signal Mounting Hardware (location) 0001. IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0692	659.1130 Luminaires Utility LED D	22.000 EACH	_____.____	_____.____
0694	659.2230 Lighting Control Cabinets 240/480 30-Inch	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0696	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	34.000 EACH	_____.____	_____.____
0698	661.0201 Temporary Traffic Signals for Intersections (location) 0001. IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0700	670.0101 Field System Integrator	1.000 EACH	_____.____	_____.____
0702	670.0201 ITS Documentation	1.000 EACH	_____.____	_____.____
0704	671.0142 Conduit HDPE 4-Duct 2-Inch	4,210.000 LF	_____.____	_____.____
0706	671.0222 Conduit HDPE Directional Bore 2-Duct 2-Inch	215.000 LF	_____.____	_____.____
0708	673.1225.S Install Pole Mounted Cabinet	1.000 EACH	_____.____	_____.____
0710	674.0300 Remove Cable	6,610.000 LF	_____.____	_____.____
0712	674.0400 Reinstall Cable	5,030.000 LF	_____.____	_____.____
0714	675.0300 Install Mounted Controller Microwave Detector Assembly	6.000 EACH	_____.____	_____.____
0716	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0718	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0720	677.9051.S Removing 50-FT Camera Pole	1.000 EACH	_____.____	_____.____
0722	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	75.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0724	678.0100.S Install Overhead Freeway DMS Full Matrix	1.000 EACH	_____.____	_____.____
0726	678.0200 Fiber Optic Splice Enclosure	3.000 EACH	_____.____	_____.____
0728	678.0300 Fiber Optic Splice	221.000 EACH	_____.____	_____.____
0730	678.0400 Fiber Optic Termination	12.000 EACH	_____.____	_____.____
0732	678.0501 Communication System Testing	3.000 EACH	_____.____	_____.____
0734	678.0600 Install Ethernet Switches	2.000 EACH	_____.____	_____.____
0736	690.0250 Sawing Concrete	128,346.000 LF	_____.____	_____.____
0738	715.0502 Incentive Strength Concrete Structures	8,278.000 DOL	1.00000	8,278.00
0740	715.0603 Incentive Strength Concrete Barrier	6,009.000 DOL	1.00000	6,009.00
0742	715.0720 Incentive Compressive Strength Concrete Pavement	2,774.000 DOL	1.00000	2,774.00
0744	740.0440 Incentive IRI Ride	43,062.000 DOL	1.00000	43,062.00
0746	801.0117 Railroad Flagging Reimbursement	235,750.000 DOL	1.00000	235,750.00
0748	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	7,000.000 HRS	5.00000	35,000.00
0750	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	18,240.000 HRS	5.00000	91,200.00
0752	SPV.0035 Special 0001. Backfill Slurry	45.000 CY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0754	SPV.0035 Special 0002. Base Patching Concrete SHES Special	6,453.000 CY	_____.____	_____.____
0756	SPV.0055 Special 0001. Incentive Density PWL	25,080.000 DOL	1.00000	25,080.00
0758	SPV.0055 Special 0002. Incentive Air Voids	29,420.000 DOL	1.00000	29,420.00
0760	SPV.0055 Special 0003. HMA Pavement LJD, Core Only Project	15,563.000 DOL	1.00000	15,563.00
0762	SPV.0060 Special 0001. Baseline CPM Progress Schedule	1.000 EACH	_____.____	_____.____
0764	SPV.0060 Special 0002. Monthly CPM Progress Schedule Updates	15.000 EACH	_____.____	_____.____
0766	SPV.0060 Special 0003. Concrete Barrier Type S42 End Anchor	24.000 EACH	_____.____	_____.____
0768	SPV.0060 Special 0004. Fastening Sewer Access Covers	78.000 EACH	_____.____	_____.____
0770	SPV.0060 Special 0005. Traffic Control Close-Open Freeway Entrance Ramp	66.000 EACH	_____.____	_____.____
0772	SPV.0060 Special 0006. Traffic Control Full Freeway Closure	18.000 EACH	_____.____	_____.____
0774	SPV.0060 Special 0007. Traffic Control Local Road Lane Closures	8.000 EACH	_____.____	_____.____
0776	SPV.0060 Special 0008. Survey Contract 1100-20-70/71	1.000 EACH	_____.____	_____.____
0778	SPV.0060 Special 0009. Mobilizations Emergency Pavement Repair	10.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0780	SPV.0060 Special 0010. Marking Median Inlets Epoxy 6-Inch	107.000 EACH	_____.____	_____.____
0782	SPV.0060 Special 0011. Concrete Barrier Type S42 Light Pole Base	3.000 EACH	_____.____	_____.____
0784	SPV.0060 Special 0012. Concrete Barrier Type S42A Light Pole Base	8.000 EACH	_____.____	_____.____
0786	SPV.0060 Special 0013. Concrete Barrier South Transition	1.000 EACH	_____.____	_____.____
0788	SPV.0060 Special 0014. Concrete Barrier North Transition	1.000 EACH	_____.____	_____.____
0790	SPV.0060 Special 0015. Utility Line Opening	35.000 EACH	_____.____	_____.____
0792	SPV.0060 Special 0016. Field Office Special	1.000 EACH	_____.____	_____.____
0794	SPV.0060 Special 0017. Drainpipe Exploration	1.000 EACH	_____.____	_____.____
0796	SPV.0060 Special 0018. Emergency Inlet Repair	10.000 EACH	_____.____	_____.____
0798	SPV.0060 Special 0019. Emergency Response to Traffic Involving Concrete Barrier Temporary	10.000 EACH	_____.____	_____.____
0800	SPV.0060 Special 0020. Emergency Response to Traffic Involving Crash Cushion	10.000 EACH	_____.____	_____.____
0802	SPV.0060 Special 1001. Poles Wood 60-FT	1.000 EACH	_____.____	_____.____
0804	SPV.0060 Special 1002. Wood Pole Lighting 60-FT	8.000 EACH	_____.____	_____.____
0806	SPV.0060 Special 1003. Luminaires Utility HPS 1000 Watts Floodlight	8.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0808	SPV.0060 Special 1004. Concrete Bases Type B	2.000 EACH	_____.____	_____.____
0810	SPV.0060 Special 1005. Luminaire Arms Single Member 4-Inch Clamp 4-FT	18.000 EACH	_____.____	_____.____
0812	SPV.0060 Special 1006. Maintenance of Lighting System	2.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 1007. Lighting System Integrator	2.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 1008. Lighting System Survey	2.000 EACH	_____.____	_____.____
0818	SPV.0060 Special 2000. Removing Overhead Freeway DMS	1.000 EACH	_____.____	_____.____
0820	SPV.0060 Special 2001. Removing Controller Cabinet	2.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 2002. Removing Controller Cabinet Base	2.000 EACH	_____.____	_____.____
0824	SPV.0060 Special 2003. Ground Rod	3.000 EACH	_____.____	_____.____
0826	SPV.0060 Special 2004. Removing Microwave Detector	1.000 EACH	_____.____	_____.____
0828	SPV.0060 Special 2005. Removing Pole	2.000 EACH	_____.____	_____.____
0830	SPV.0060 Special 2006. Install Salvaged Pole	1.000 EACH	_____.____	_____.____
0832	SPV.0060 Special 3000. Install Poles Type 9	2.000 EACH	_____.____	_____.____
0834	SPV.0060 Special 3001. Install Poles Type 9 Special	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0836	SPV.0060 Special 3002. Install Monotube Arms 30-FT	2.000 EACH	_____.____	_____.____
0838	SPV.0060 Special 3003. Install Monotube Arms 45-FT TYPE 9/10 Spec Pole	1.000 EACH	_____.____	_____.____
0840	SPV.0060 Special 3004. Trnspt & Install Stat Furn Tra Si Ca (IH 41 NB Ram & CTH EE W Hampton Ave)	1.000 EACH	_____.____	_____.____
0842	SPV.0060 Special 3005. Temp Non-Interse Det Sys For Int (IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0844	SPV.0060 Special 3006. Trnspt & Install State Furn Rad DE(IH 41 NB Ramps & CTH EE W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0846	SPV.0060 Special 3007. Trnspr Traffic Sig & Int Light Mat (IH 41 NB Ramps & CTH EE W Hampton Ave)	1.000 EACH	_____.____	_____.____
0848	SPV.0060 Special 3008. Install Fiber Optic Communications in Cabinet IH 41 NB Ramps and CTH EE	1.000 EACH	_____.____	_____.____
0850	SPV.0060 Special 4000. Embedded Galvanic Anodes	385.000 EACH	_____.____	_____.____
0852	SPV.0060 Special 4010. Micropile Verification Load Test	1.000 EACH	_____.____	_____.____
0854	SPV.0060 Special 4011. Micropile Proof Load Test	4.000 EACH	_____.____	_____.____
0856	SPV.0060 Special 4030. Vegetation Removal B-40-358	1.000 EACH	_____.____	_____.____
0858	SPV.0060 Special 4031. Vegetation Removial B-40-359	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0860	SPV.0060 Special 4040. Strapping C-40-47	3.000 EACH	_____.____	_____.____
0862	SPV.0060 Special 4060. Cleaning and Painting Bearings	14.000 EACH	_____.____	_____.____
0864	SPV.0060 Special 4070. Pier Widening Access	1.000 EACH	_____.____	_____.____
0866	SPV.0060 Special 4080. Resetting Bearings B-40-358	2.000 EACH	_____.____	_____.____
0868	SPV.0060 Special 4500. Tension Anchor Rods	16.000 EACH	_____.____	_____.____
0870	SPV.0060 Special 4501. Remove Catwalk	6.000 EACH	_____.____	_____.____
0872	SPV.0060 Special 4502. Install ID Plaque	2.000 EACH	_____.____	_____.____
0874	SPV.0060 Special 4503. Secure/Replace Handhole Cover	2.000 EACH	_____.____	_____.____
0876	SPV.0060 Special 8000. Reconnect Storm Sewer	103.000 EACH	_____.____	_____.____
0878	SPV.0060 Special 8001. Temporary Storm Sewer Plug	9.000 EACH	_____.____	_____.____
0880	SPV.0060 Special 8002. Bulkhead Pipe	2.000 EACH	_____.____	_____.____
0882	SPV.0085 Special 0001. Native Pollinator Seed Mixture No. 90A	146.000 LB	_____.____	_____.____
0884	SPV.0090 Special 0001. Concrete Barrier Double Faced	333.000 LF	_____.____	_____.____
0886	SPV.0090 Special 0002. Pipe Underdrain 6-Inch Special	3,352.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0888	SPV.0090 Special 1001. Cable Aerial Aluminum 6 AWG Triplex	4,410.000 LF	_____.____	_____.____
0890	SPV.0090 Special 2000. Outdoor Rated Network Cable	820.000 LF	_____.____	_____.____
0892	SPV.0090 Special 3000. Fiber Optic Warning Tape	499.000 LF	_____.____	_____.____
0894	SPV.0090 Special 4000. 9.625-Inch Micropile Foundation	4,569.000 LF	_____.____	_____.____
0896	SPV.0090 Special 8000. Cleaning Storm Sewer	1,000.000 LF	_____.____	_____.____
0898	SPV.0165 Special 4000. Removing Loose Concrete	764.000 SF	_____.____	_____.____
0900	SPV.0165 Special 4010. Temporary Shoring Railroad	650.000 SF	_____.____	_____.____
0902	SPV.0165 Special 4501. Repair Galavnized Coating	3.000 SF	_____.____	_____.____
0904	SPV.0180 Special 0002. High Friction Surface Treatment	13,975.000 SY	_____.____	_____.____
0906	SPV.0180 Special 0003. Excavation of Phragmites Contaminated Soil	100.000 SY	_____.____	_____.____
0908	SPV.0180 Special 0004. Herbicide Application	100.000 SY	_____.____	_____.____
0910	SPV.0180 Special 4000. Polyester Polymer Concrete Overlay	10,452.000 SY	_____.____	_____.____
0912	SPV.0180 Special 4001. Abutment Seat Cleaning and Sealing	134.000 SY	_____.____	_____.____
0914	SPV.0180 Special 4010. Grouting Existing Riprap	56.000 SY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0916	SPV.0195 Special 0001. HMA Longitudinal Joint Repair	362.000 TON	_____.____	_____.____
0918	SPV.0195 Special 4000. Excavation, Hauling, and Disposal of Solid Waste Soil	194.000 TON	_____.____	_____.____
0920	511.1100 Temporary Shoring	600.000 SF	_____.____	_____.____
0922	643.0500 Traffic Control Flexible Tubular Marker Posts	42.000 EACH	_____.____	_____.____
0924	643.0600 Traffic Control Flexible Tubular Marker Bases	42.000 EACH	_____.____	_____.____
0926	646.1020 Marking Line Epoxy 4-Inch	200.000 LF	_____.____	_____.____
	Section: 0001		**Total:**	_____.____

Total Bid: **_____.____**

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

October 3, 2024

NOTICE TO ALL CONTRACTORS:

Proposal #06:	**1100-20-70, WISC 2025004** **IH 41 Zoo Freeway** **Burleigh St to Capitol Dr** **IH 41** **Milwaukee County**	**1100-20-71, WISC 2025005** **IH 41 Zoo Freeway** **Capitol Dr to Silver Springs Dr** **IH 41** **Milwaukee County**

Letting of October 8, 2024

This is Addendum No. 03, which provides for the following:

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
SPV.0055.0003	HMA Pavement LJD, Core Only Project	DOL	15,563	-353	15,210

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	7,781	-7,781	0

Schedule of Items
Attached, dated October 3, 2024, are the revised Schedule of Items Pages 1 – 33.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	201.0205 Grubbing	103.000 STA	_____.____	_____.____
0004	203.0220 Removing Structure (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0006	203.0220 Removing Structure (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0008	203.0220 Removing Structure (structure) 0106. C-40-47	1.000 EACH	_____.____	_____.____
0010	203.0220 Removing Structure (structure) 0107. N-40-88	1.000 EACH	_____.____	_____.____
0012	203.0330 Debris Containment (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0014	203.0330 Debris Containment (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0016	203.0335 Debris Containment Over Waterway (structure) 0101. B-40-216	1.000 EACH	_____.____	_____.____
0018	203.0335 Debris Containment Over Waterway (structure) 0102. B-40-217	1.000 EACH	_____.____	_____.____
0020	204.0100 Removing Concrete Pavement	12,564.000 SY	_____.____	_____.____
0022	204.0109.S Removing Concrete Surface Partial Depth	285,943.000 SF	_____.____	_____.____
0024	204.0115 Removing Asphaltic Surface Butt Joints	366.000 SY	_____.____	_____.____
0026	204.0120 Removing Asphaltic Surface Milling	206,154.000 SY	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0028	204.0126.S Removing Asphaltic Longitudinal Notched Wedge Joint Milling	43,435.000 LF	_____.____	_____.____
0030	204.0150 Removing Curb & Gutter	1,076.000 LF	_____.____	_____.____
0032	204.0157 Removing Concrete Barrier	5,780.000 LF	_____.____	_____.____
0034	204.0165 Removing Guardrail	5,357.000 LF	_____.____	_____.____
0036	204.0170 Removing Fence	1,143.000 LF	_____.____	_____.____
0038	204.0175 Removing Concrete Slope Paving	450.000 SY	_____.____	_____.____
0040	204.0195 Removing Concrete Bases	27.000 EACH	_____.____	_____.____
0042	204.0246 Removing Ancillary Structure (structure) 0001. S-40-237	1.000 EACH	_____.____	_____.____
0044	204.0246 Removing Ancillary Structure (structure) 0006. S-40-400	1.000 EACH	_____.____	_____.____
0046	204.0246 Removing Ancillary Structure (structure) 0010. S-40-238	1.000 EACH	_____.____	_____.____
0048	204.0246 Removing Ancillary Structure (structure) 0011. S-40-239	1.000 EACH	_____.____	_____.____
0050	204.0291.S Abandoning Sewer	3.620 CY	_____.____	_____.____
0052	204.9060.S Removing (item description) 0100. Traffic Signals IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0054	204.9060.S Removing (item description) 0101. Loop Detect Wire & Cable IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0056	204.9060.S Removing (item description) 1001. Removing Lighting Units	14.000 EACH	_____.____	_____.____
0058	204.9060.S Removing (item description) 1002. Concrete Bases Type HF3	5.000 EACH	_____.____	_____.____
0060	204.9060.S Removing (item description) 1003. Poles Wood 60-FT	1.000 EACH	_____.____	_____.____
0062	204.9060.S Removing (item description) 1004. Poles Wood 60-FT and Floodlights	8.000 EACH	_____.____	_____.____
0064	205.0100 Excavation Common	19,070.000 CY	_____.____	_____.____
0066	206.1001 Excavation for Structures Bridges (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0068	206.1001 Excavation for Structures Bridges (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0070	206.2001 Excavation for Structures Culverts (structure) 0106. C-40-47	1.000 EACH	_____.____	_____.____
0072	210.1500 Backfill Structure Type A	960.000 TON	_____.____	_____.____
0074	213.0100 Finishing Roadway (project) 0001. 1100-20-70	1.000 EACH	_____.____	_____.____
0076	213.0100 Finishing Roadway (project) 0002. 1100-20-71	1.000 EACH	_____.____	_____.____
0078	305.0110 Base Aggregate Dense 3/4-Inch	146.000 TON	_____.____	_____.____
0080	305.0120 Base Aggregate Dense 1 1/4-Inch	7,901.000 TON	_____.____	_____.____
0082	312.0110 Select Crushed Material	19,387.000 TON	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

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	390.0100 Removing Pavement for Base Patching	9,414.000 CY	_____.____	_____.____
0086	390.0305 Base Patching Concrete HES	1,542.000 CY	_____.____	_____.____
0088	390.0405 Base Patching Concrete SHES	1,427.000 CY	_____.____	_____.____
0090	415.0060 Concrete Pavement 6-Inch	516.000 SY	_____.____	_____.____
0092	415.0080 Concrete Pavement 8-Inch	2,061.000 SY	_____.____	_____.____
0094	415.0090 Concrete Pavement 9-Inch	15.000 SY	_____.____	_____.____
0096	415.0100 Concrete Pavement 10-Inch	4,833.000 SY	_____.____	_____.____
0098	415.1410 Concrete Pavement Approach Slab HES	1,841.000 SY	_____.____	_____.____
0100	416.0610 Drilled Tie Bars	5,302.000 EACH	_____.____	_____.____
0102	416.0620 Drilled Dowel Bars	16,739.000 EACH	_____.____	_____.____
0104	416.1710 Concrete Pavement Repair	857.000 SY	_____.____	_____.____
0106	416.1715 Concrete Pavement Repair SHES	16.000 SY	_____.____	_____.____
0108	416.1720 Concrete Pavement Replacement	129.000 SY	_____.____	_____.____
0110	416.1725 Concrete Pavement Replacement SHES	1,018.000 SY	_____.____	_____.____
0112	420.1000 Continuous Diamond Grinding Concrete Pavement	14,122.000 SY	_____.____	_____.____
0114	450.4000 HMA Cold Weather Paving	13,922.000 TON	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0116	455.0605 Tack Coat	26,085.000 GAL	_____.____	_____.____
0118	460.0105.S HMA Percent Within Limits (PWL) Test Strip Volumetrics	1.000 EACH	_____.____	_____.____
0120	460.0115.S HMA Pavement Test Strip Volumetrics	1.000 EACH	_____.____	_____.____
0122	460.0120.S HMA Pavement Test Strip Density	1.000 EACH	_____.____	_____.____
0124	460.2000 Incentive Density HMA Pavement	13,010.000 DOL	1.00000	13,010.00
0130	460.7423 HMA Pavement 3 HT 58-28 H	33,802.000 TON	_____.____	_____.____
0132	460.8625 HMA Pavement 5 SMA 58-28 V	26,309.000 TON	_____.____	_____.____
0134	460.9000.S Material Transfer Vehicle	1.000 EACH	_____.____	_____.____
0136	502.0100 Concrete Masonry Bridges	973.000 CY	_____.____	_____.____
0138	502.0717.S Crack Sealing Epoxy	2,490.000 LF	_____.____	_____.____
0140	502.3101 Expansion Device	861.000 LF	_____.____	_____.____
0142	502.3200 Protective Surface Treatment	100.000 SY	_____.____	_____.____
0144	502.3205 Pigmented Surface Sealer Reseal	2,021.000 SY	_____.____	_____.____
0146	502.3210 Pigmented Surface Sealer	452.000 SY	_____.____	_____.____
0148	502.3215 Protective Surface Treatment Reseal	2,171.000 SY	_____.____	_____.____
0150	502.4204 Adhesive Anchors No. 4 Bar	64.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0152	502.4205 Adhesive Anchors No. 5 Bar	874.000 EACH	_____.____	_____.____
0154	502.4206 Adhesive Anchors No. 6 Bar	42.000 EACH	_____.____	_____.____
0156	502.4209 Adhesive Anchors No. 9 Bar	14.000 EACH	_____.____	_____.____
0158	504.0100 Concrete Masonry Culverts	12.000 CY	_____.____	_____.____
0160	505.0400 Bar Steel Reinforcement HS Structures	5,730.000 LB	_____.____	_____.____
0162	505.0600 Bar Steel Reinforcement HS Coated Structures	184,830.000 LB	_____.____	_____.____
0164	505.0904 Bar Couplers No. 4	16.000 EACH	_____.____	_____.____
0166	505.0905 Bar Couplers No. 5	40.000 EACH	_____.____	_____.____
0168	505.0906 Bar Couplers No. 6	20.000 EACH	_____.____	_____.____
0170	506.0105 Structural Steel Carbon	17,030.000 LB	_____.____	_____.____
0172	506.0605 Structural Steel HS	209,300.000 LB	_____.____	_____.____
0174	506.2610 Bearing Pads Elastomeric Laminated	12.000 EACH	_____.____	_____.____
0176	506.3008 Welded Stud Shear Connectors 5/8x5-Inch	42.000 EACH	_____.____	_____.____
0178	506.3020 Welded Stud Shear Connectors 7/8x7-Inch	1,936.000 EACH	_____.____	_____.____
0180	506.5000 Bearing Assemblies Fixed (structure) 0001. B-40-358	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0182	506.5000 Bearing Assemblies Fixed (structure) 0002. B-40-359	2.000 EACH	_____._____	_____._____
0184	509.0301 Preparation Decks Type 1	127.000 SY	_____._____	_____._____
0186	509.0302 Preparation Decks Type 2	52.000 SY	_____._____	_____._____
0188	509.0310.S Sawing Pavement Deck Preparation Areas	1,430.000 LF	_____._____	_____._____
0190	509.0500 Cleaning Decks	9,402.000 SY	_____._____	_____._____
0192	509.1000 Joint Repair	347.000 SY	_____._____	_____._____
0194	509.1500 Concrete Surface Repair	548.000 SF	_____._____	_____._____
0196	509.2000 Full-Depth Deck Repair	8.000 SY	_____._____	_____._____
0198	509.2100.S Concrete Masonry Deck Repair	127.000 CY	_____._____	_____._____
0200	509.5100.S Polymer Overlay	4,738.000 SY	_____._____	_____._____
0202	509.9015.S Removing Polymer Overlay (structure) 0006. B-40-356	1,149.000 SY	_____._____	_____._____
0204	509.9015.S Removing Polymer Overlay (structure) 0007. B-40-357	1,149.000 SY	_____._____	_____._____
0206	509.9020.S Epoxy Crack Sealing	1,305.000 LF	_____._____	_____._____
0208	511.1200 Temporary Shoring (structure) 0008. B-40-358	1,200.000 SF	_____._____	_____._____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0210	511.1200 Temporary Shoring (structure) 0009. B-40-359	1,150.000 SF	_____.____	_____.____
0212	511.1300 Temporary Shoring (location) 0001. N-40-105	5,250.000 SF	_____.____	_____.____
0214	512.0500 Piling Steel Sheet Permanent Delivered	725.000 SF	_____.____	_____.____
0216	512.0600 Piling Steel Sheet Permanent Driven	710.000 SF	_____.____	_____.____
0218	516.0500 Rubberized Membrane Waterproofing	30.000 SY	_____.____	_____.____
0220	517.0601 Painting Epoxy System (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0222	517.0601 Painting Epoxy System (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0224	517.0901.S Preparation and Coating of Top Flanges (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0226	517.0901.S Preparation and Coating of Top Flanges (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0228	517.0901.S Preparation and Coating of Top Flanges (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0230	517.0901.S Preparation and Coating of Top Flanges (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0232	517.0901.S Preparation and Coating of Top Flanges (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0234	517.0901.S Preparation and Coating of Top Flanges (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0236	517.1801.S Structure Repainting Recycled Abrasive (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0238	517.1801.S Structure Repainting Recycled Abrasive (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0240	517.1801.S Structure Repainting Recycled Abrasive (structure) 0103. B-40-360	1.000 EACH	_____.____	_____.____
0242	517.1801.S Structure Repainting Recycled Abrasive (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0244	517.1801.S Structure Repainting Recycled Abrasive (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0246	517.3001.S Structure Overcoating Cleaning and Priming (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0248	517.3001.S Structure Overcoating Cleaning and Priming (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0250	517.4001.S Containment and Collection of Waste Materials (structure) 0008. B-40-358	1.000 EACH	_____.____	_____.____
0252	517.4001.S Containment and Collection of Waste Materials (structure) 0009. B-40-359	1.000 EACH	_____.____	_____.____
0254	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0006. B-40-356	1.000 EACH	_____.____	_____.____
0256	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0007. B-40-357	1.000 EACH	_____.____	_____.____
0258	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0103. B-40-360	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0260	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0104. B-40-363	1.000 EACH	_____.____	_____.____
0262	517.4501.S Negative Pressure Containment and Collection of Waste Materials (structure) 0105. B-40-364	1.000 EACH	_____.____	_____.____
0264	517.6001.S Portable Decontamination Facility	7.000 EACH	_____.____	_____.____
0266	520.8700 Cleaning Culvert Pipes	15.000 EACH	_____.____	_____.____
0268	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	9.000 EACH	_____.____	_____.____
0270	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	8.000 EACH	_____.____	_____.____
0272	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	2.000 EACH	_____.____	_____.____
0274	531.1100 Concrete Masonry Ancillary Structures Type NS	104.400 CY	_____.____	_____.____
0276	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	10,846.000 LB	_____.____	_____.____
0278	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	6,280.000 LB	_____.____	_____.____
0280	531.2024 Drilling Shaft 24-Inch	170.000 LF	_____.____	_____.____
0282	531.2030 Drilling Shaft 30-Inch	60.000 LF	_____.____	_____.____
0284	531.2036 Drilling Shaft 36-Inch	320.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0286	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0288	531.6010 Foundation Two-Shaft Type FC-I (structure) 0003. S-40-3085	1.000 EACH	_____.____	_____.____
0290	531.6010 Foundation Two-Shaft Type FC-I (structure) 0012. S-40-3088	1.000 EACH	_____.____	_____.____
0292	531.6020 Foundation Two-Shaft Type FC-II (structure) 0002. S-40-3084	1.000 EACH	_____.____	_____.____
0294	531.6020 Foundation Two-Shaft Type FC-II (structure) 0004. S-40-3086	1.000 EACH	_____.____	_____.____
0296	531.6020 Foundation Two-Shaft Type FC-II (structure) 0005. S-40-3087	1.000 EACH	_____.____	_____.____
0298	531.6020 Foundation Two-Shaft Type FC-II (structure) 0013. S-40-3089	1.000 EACH	_____.____	_____.____
0300	532.5020 Butterfly 2-Chord NS (structure) 0001. S-40-3060	1.000 EACH	_____.____	_____.____
0302	532.5020 Butterfly 2-Chord NS (structure) 0010. S-40-3061	1.000 EACH	_____.____	_____.____
0304	532.5020 Butterfly 2-Chord NS (structure) 0011. S-40-3062	1.000 EACH	_____.____	_____.____
0306	532.6010 Truss Cantilever 4-Chord Type I (structure) 0003. S-40-3085	1.000 EACH	_____.____	_____.____
0308	532.6010 Truss Cantilever 4-Chord Type I (structure) 0012. S-40-3088	1.000 EACH	_____.____	_____.____
0310	532.6020 Truss Cantilever 4-Chord Type II (structure) 0002. S-40-3084	1.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0312	532.6020 Truss Cantilever 4-Chord Type II (structure) 0004. S-40-3086	1.000 EACH	_____.____	_____.____
0314	532.6020 Truss Cantilever 4-Chord Type II (structure) 0005. S-40-3087	1.000 EACH	_____.____	_____.____
0316	532.6020 Truss Cantilever 4-Chord Type II (structure) 0013. S-40-3089	1.000 EACH	_____.____	_____.____
0318	532.6120 Truss Full Span 4-Chord Type II (structure) 0006. S-40-462	1.000 EACH	_____.____	_____.____
0320	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0001. N-40-105	39,200.000 SF	_____.____	_____.____
0322	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0002. N-40-88	26,125.000 SF	_____.____	_____.____
0324	601.0411 Concrete Curb & Gutter 30-Inch Type D	12.000 LF	_____.____	_____.____
0326	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	78.000 LF	_____.____	_____.____
0328	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	697.000 LF	_____.____	_____.____
0330	601.0590 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	80.000 LF	_____.____	_____.____
0332	602.3010 Concrete Surface Drains	2.000 CY	_____.____	_____.____
0334	603.0105 Concrete Barrier Single-Faced 32-Inch	1,346.000 LF	_____.____	_____.____
0336	603.1142 Concrete Barrier Type S42	6,491.000 LF	_____.____	_____.____
0338	603.1156 Concrete Barrier Type S56	360.000 LF	_____.____	_____.____

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Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0340	603.1242 Concrete Barrier Type S42A	1,686.000 LF	_____.____	_____.____
0342	603.1342 Concrete Barrier Type S42B	30.000 LF	_____.____	_____.____
0344	603.1442 Concrete Barrier Type S42C	400.000 LF	_____.____	_____.____
0346	603.3213 Concrete Barrier Transition Type F32SF to S36	10.000 EACH	_____.____	_____.____
0348	603.3535 Concrete Barrier Transition Type S36 to S42	10.000 EACH	_____.____	_____.____
0350	603.3559 Concrete Barrier Transition Type S42 to S56	8.000 EACH	_____.____	_____.____
0352	603.8000 Concrete Barrier Temporary Precast Delivered	42,549.000 LF	_____.____	_____.____
0354	603.8125 Concrete Barrier Temporary Precast Installed	72,050.000 LF	_____.____	_____.____
0356	604.0400 Slope Paving Concrete	450.000 SY	_____.____	_____.____
0358	604.0500 Slope Paving Crushed Aggregate	442.000 SY	_____.____	_____.____
0360	604.9015.S Reseal Crushed Aggregate Slope Paving	2,326.000 SY	_____.____	_____.____
0362	606.0200 Riprap Medium	370.000 CY	_____.____	_____.____
0364	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	12.000 LF	_____.____	_____.____
0366	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	905.000 LF	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0368	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	3,470.000 LF	_____.____	_____.____
0370	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	8.000 LF	_____.____	_____.____
0372	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	48.000 LF	_____.____	_____.____
0374	611.0420 Reconstructing Manholes	1.000 EACH	_____.____	_____.____
0376	611.0530 Manhole Covers Type J	1.000 EACH	_____.____	_____.____
0378	611.0535 Manhole Covers Type J-Special	1.000 EACH	_____.____	_____.____
0380	611.0610 Inlet Covers Type BW	161.000 EACH	_____.____	_____.____
0382	611.0624 Inlet Covers Type H	1.000 EACH	_____.____	_____.____
0384	611.0642 Inlet Covers Type MS	9.000 EACH	_____.____	_____.____
0386	611.2005 Manholes 5-FT Diameter	11.000 EACH	_____.____	_____.____
0388	611.2006 Manholes 6-FT Diameter	1.000 EACH	_____.____	_____.____
0390	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.____	_____.____
0392	611.2008 Manholes 8-FT Diameter	1.000 EACH	_____.____	_____.____
0394	611.3004 Inlets 4-FT Diameter	151.000 EACH	_____.____	_____.____
0396	611.3901 Inlets Median 1 Grate	2.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	611.3902 Inlets Median 2 Grate	4.000 EACH	_____.____	_____.____
0400	611.8115 Adjusting Inlet Covers	1.000 EACH	_____.____	_____.____
0402	611.8120.S Cover Plates Temporary	2.000 EACH	_____.____	_____.____
0404	612.0206 Pipe Underdrain Unperforated 6-Inch	55.000 LF	_____.____	_____.____
0406	612.0406 Pipe Underdrain Wrapped 6-Inch	609.000 LF	_____.____	_____.____
0408	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	1.000 EACH	_____.____	_____.____
0410	614.0200 Steel Thrie Beam Structure Approach	21.000 LF	_____.____	_____.____
0412	614.0305 Steel Plate Beam Guard Class A	175.000 LF	_____.____	_____.____
0414	614.0905 Crash Cushions Temporary	11.000 EACH	_____.____	_____.____
0416	614.0925 Salvaged Guardrail End Treatments	16.000 EACH	_____.____	_____.____
0418	614.2300 MGS Guardrail 3	4,648.000 LF	_____.____	_____.____
0420	614.2330 MGS Guardrail 3 K	38.000 LF	_____.____	_____.____
0422	614.2500 MGS Thrie Beam Transition	553.000 LF	_____.____	_____.____
0424	614.2610 MGS Guardrail Terminal EAT	16.000 EACH	_____.____	_____.____
0426	614.2620 MGS Guardrail Terminal Type 2	4.000 EACH	_____.____	_____.____
0428	616.0206 Fence Chain Link 6-FT	1,123.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0430	616.0208 Fence Chain Link 8-FT	525.000 LF	_____.____	_____.____
0432	616.0329 Gates Chain Link (width) 0001. 3' width	4.000 EACH	_____.____	_____.____
0434	616.0700.S Fence Safety	50.000 LF	_____.____	_____.____
0436	618.0100 Maintenance and Repair of Haul Roads (project) 0001. 1100-20-70	1.000 EACH	_____.____	_____.____
0438	618.0100 Maintenance and Repair of Haul Roads (project) 0002. 1100-20-71	1.000 EACH	_____.____	_____.____
0440	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0442	623.0200 Dust Control Surface Treatment	29,011.000 SY	_____.____	_____.____
0444	624.0100 Water	190.000 MGAL	_____.____	_____.____
0446	625.0500 Salvaged Topsoil	94,900.000 SY	_____.____	_____.____
0448	627.0200 Mulching	13,800.000 SY	_____.____	_____.____
0450	628.1504 Silt Fence	12,620.000 LF	_____.____	_____.____
0452	628.1520 Silt Fence Maintenance	12,620.000 LF	_____.____	_____.____
0454	628.1905 Mobilizations Erosion Control	20.000 EACH	_____.____	_____.____
0456	628.1910 Mobilizations Emergency Erosion Control	12.000 EACH	_____.____	_____.____
0458	628.2004 Erosion Mat Class I Type B	81,100.000 SY	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0460	628.6510 Soil Stabilizer Type B	20.000 ACRE	_____.____	_____.____
0462	628.7005 Inlet Protection Type A	17.000 EACH	_____.____	_____.____
0464	628.7020 Inlet Protection Type D	209.000 EACH	_____.____	_____.____
0466	628.7504 Temporary Ditch Checks	1,530.000 LF	_____.____	_____.____
0468	628.7515.S Stone Ditch Checks	156.000 CY	_____.____	_____.____
0470	628.7560 Tracking Pads	9.000 EACH	_____.____	_____.____
0472	629.0210 Fertilizer Type B	59.000 CWT	_____.____	_____.____
0474	630.0160 Seeding Mixture No. 60	40.000 LB	_____.____	_____.____
0476	630.0170 Seeding Mixture No. 70	230.000 LB	_____.____	_____.____
0478	630.0200 Seeding Temporary	2,760.000 LB	_____.____	_____.____
0480	630.0500 Seed Water	2,200.000 MGAL	_____.____	_____.____
0482	633.1000 Delineators Barrier Wall	158.000 EACH	_____.____	_____.____
0484	633.5200 Markers Culvert End	70.000 EACH	_____.____	_____.____
0486	634.0618 Posts Wood 4x6-Inch X 18-FT	143.000 EACH	_____.____	_____.____
0488	634.0622 Posts Wood 4x6-Inch X 22-FT	9.000 EACH	_____.____	_____.____
0490	635.0200 Sign Supports Structural Steel HS	11,600.000 LB	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0492	637.1220 Signs Type I Reflective SH	1,775.500 SF	_____.____	_____.____
0494	637.1230 Signs Type I Reflective F	381.250 SF	_____.____	_____.____
0496	637.2210 Signs Type II Reflective H	2,274.260 SF	_____.____	_____.____
0498	637.2230 Signs Type II Reflective F	811.750 SF	_____.____	_____.____
0500	638.2101 Moving Signs Type I	10.000 EACH	_____.____	_____.____
0502	638.2102 Moving Signs Type II	17.000 EACH	_____.____	_____.____
0504	638.2601 Removing Signs Type I	10.000 EACH	_____.____	_____.____
0506	638.2602 Removing Signs Type II	193.000 EACH	_____.____	_____.____
0508	638.3000 Removing Small Sign Supports	152.000 EACH	_____.____	_____.____
0510	638.3100 Removing Structural Steel Sign Supports	28.000 EACH	_____.____	_____.____
0512	643.0300 Traffic Control Drums	242,773.000 DAY	_____.____	_____.____
0514	643.0420 Traffic Control Barricades Type III	24,563.000 DAY	_____.____	_____.____
0516	643.0705 Traffic Control Warning Lights Type A	49,252.000 DAY	_____.____	_____.____
0518	643.0715 Traffic Control Warning Lights Type C	48,973.000 DAY	_____.____	_____.____
0520	643.0800 Traffic Control Arrow Boards	1,342.000 DAY	_____.____	_____.____
0522	643.0900 Traffic Control Signs	100,448.000 DAY	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0524	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.____	_____.____
0526	643.0920 Traffic Control Covering Signs Type II	34.000 EACH	_____.____	_____.____
0528	643.1000 Traffic Control Signs Fixed Message	1,473.000 SF	_____.____	_____.____
0530	643.1050 Traffic Control Signs PCMS	474.000 DAY	_____.____	_____.____
0532	643.1100.S Dynamic Late Merge System	410.000 DAY	_____.____	_____.____
0534	643.3165 Temporary Marking Line Paint 6-Inch	253,429.000 LF	_____.____	_____.____
0536	643.3265 Temporary Marking Line Paint 10-Inch	16,066.000 LF	_____.____	_____.____
0538	643.3760 Temporary Marking Raised Pavement Marker Type I	614.000 EACH	_____.____	_____.____
0540	643.4100 Traffic Control Interim Lane Closure	80.000 EACH	_____.____	_____.____
0542	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0544	644.1810 Temporary Pedestrian Barricade	240.000 LF	_____.____	_____.____
0546	645.0120 Geotextile Type HR	754.000 SY	_____.____	_____.____
0548	645.0130 Geotextile Type R	88.000 SY	_____.____	_____.____
0550	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	570.000 LF	_____.____	_____.____
0552	646.2020 Marking Line Epoxy 6-Inch	2,118.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0554	646.2025 Marking Line Grooved Black Epoxy 6-Inch	19,339.000 LF	_____.____	_____.____
0556	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	96,922.000 LF	_____.____	_____.____
0558	646.2050 Marking Line Grooved Permanent Tape 6-Inch	19,778.000 LF	_____.____	_____.____
0560	646.3040 Marking Line Grooved Wet Ref Epoxy 8-Inch	1,603.000 LF	_____.____	_____.____
0562	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	327.000 LF	_____.____	_____.____
0564	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	131.000 LF	_____.____	_____.____
0566	646.4050 Marking Line Grooved Permanent Tape 10-Inch	34,425.000 LF	_____.____	_____.____
0568	646.5020 Marking Arrow Epoxy	44.000 EACH	_____.____	_____.____
0570	646.5120 Marking Word Epoxy	25.000 EACH	_____.____	_____.____
0572	646.5220 Marking Symbol Epoxy	36.000 EACH	_____.____	_____.____
0574	646.5520 Marking Outfall Epoxy	51.000 EACH	_____.____	_____.____
0576	646.6120 Marking Stop Line Epoxy 18-Inch	643.000 LF	_____.____	_____.____
0578	646.6220 Marking Yield Line Epoxy 18-Inch	157.000 EACH	_____.____	_____.____
0580	646.7120 Marking Diagonal Epoxy 12-Inch	7,393.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0582	646.7220 Marking Chevron Epoxy 24-Inch	1,354.000 LF	_____.____	_____.____
0584	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,612.000 LF	_____.____	_____.____
0586	646.8220 Marking Island Nose Epoxy	1.000 EACH	_____.____	_____.____
0588	646.9000 Marking Removal Line 4-Inch	25,831.000 LF	_____.____	_____.____
0590	646.9002 Marking Removal Line 6-Inch	86,158.000 LF	_____.____	_____.____
0592	646.9055 Marking Removal Line Grooved Contrast Permanent Tape 4-Inch	14,592.000 LF	_____.____	_____.____
0594	646.9102 Marking Removal Line 10-Inch	4,700.000 LF	_____.____	_____.____
0596	646.9155 Marking Removal Line Grooved Contrast Permanent Tape 8-Inch	6,493.000 LF	_____.____	_____.____
0598	652.0125 Conduit Rigid Metallic 2-Inch	15.000 LF	_____.____	_____.____
0600	652.0135 Conduit Rigid Metallic 3-Inch	16.000 LF	_____.____	_____.____
0602	652.0215 Conduit Rigid Nonmetallic Schedule 40 1 1/4-Inch	225.000 LF	_____.____	_____.____
0604	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	3,795.000 LF	_____.____	_____.____
0606	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,166.000 LF	_____.____	_____.____
0608	652.0605 Conduit Special 2-Inch	32.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0610	652.0615 Conduit Special 3-Inch	1,344.000 LF	_____.____	_____.____
0612	652.0700.S Install Conduit into Existing Item	8.000 EACH	_____.____	_____.____
0614	652.0800 Conduit Loop Detector	706.000 LF	_____.____	_____.____
0616	653.0135 Pull Boxes Steel 24x36-Inch	4.000 EACH	_____.____	_____.____
0618	653.0140 Pull Boxes Steel 24x42-Inch	19.000 EACH	_____.____	_____.____
0620	653.0905 Removing Pull Boxes	24.000 EACH	_____.____	_____.____
0622	654.0101 Concrete Bases Type 1	5.000 EACH	_____.____	_____.____
0624	654.0105 Concrete Bases Type 5	1.000 EACH	_____.____	_____.____
0626	654.0110 Concrete Bases Type 10	2.000 EACH	_____.____	_____.____
0628	654.0115 Concrete Bases Type F	9.000 EACH	_____.____	_____.____
0630	654.0120 Concrete Bases Type 10-Special	1.000 EACH	_____.____	_____.____
0632	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.____	_____.____
0634	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.____	_____.____
0636	655.0230 Cable Traffic Signal 5-14 AWG	441.000 LF	_____.____	_____.____
0638	655.0240 Cable Traffic Signal 7-14 AWG	1,185.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0640	655.0260 Cable Traffic Signal 12-14 AWG	1,228.000 LF	_____.____	_____.____
0642	655.0515 Electrical Wire Traffic Signals 10 AWG	7,909.000 LF	_____.____	_____.____
0644	655.0525 Electrical Wire Traffic Signals 6 AWG	900.000 LF	_____.____	_____.____
0646	655.0610 Electrical Wire Lighting 12 AWG	3,762.000 LF	_____.____	_____.____
0648	655.0615 Electrical Wire Lighting 10 AWG	60.000 LF	_____.____	_____.____
0650	655.0625 Electrical Wire Lighting 6 AWG	32,665.000 LF	_____.____	_____.____
0652	655.0630 Electrical Wire Lighting 4 AWG	4,400.000 LF	_____.____	_____.____
0654	655.0640 Electrical Wire Lighting 1 AWG	18.000 LF	_____.____	_____.____
0656	655.0700 Loop Detector Lead In Cable	2,158.000 LF	_____.____	_____.____
0658	655.0800 Loop Detector Wire	2,428.000 LF	_____.____	_____.____
0660	656.0201 Electrical Service Meter Breaker Pedestal (location) 0001. IH 41 NB Ramps & CTH EE (W Hampton Ave)	1.000 EACH	_____.____	_____.____
0662	656.0401 Electrical Service Main Lugs Only Meter Pedestal (location) 0001. HL-40-CC	1.000 EACH	_____.____	_____.____
0664	656.0501 Electrical Service Breaker Disconnect Box (location) 0001. CCTV-40-0041	1.000 EACH	_____.____	_____.____
0666	657.0100 Pedestal Bases	5.000 EACH	_____.____	_____.____
0668	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	6.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0670	657.0375 Poles Type A	2.000 EACH	_____.____	_____.____
0672	657.0381 Poles Type F	9.000 EACH	_____.____	_____.____
0674	657.0420 Traffic Signal Standards Aluminum 13-FT	3.000 EACH	_____.____	_____.____
0676	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.____	_____.____
0678	657.0430 Traffic Signal Standards Aluminum 10-FT	1.000 EACH	_____.____	_____.____
0680	657.0620 Luminaire Arms Single Member 6-Inch Clamp 4-FT	4.000 EACH	_____.____	_____.____
0682	658.0173 Traffic Signal Face 3S 12-Inch	9.000 EACH	_____.____	_____.____
0684	658.0174 Traffic Signal Face 4S 12-Inch	3.000 EACH	_____.____	_____.____
0686	658.0416 Pedestrian Signal Face 16-Inch	4.000 EACH	_____.____	_____.____
0688	658.0500 Pedestrian Push Buttons	4.000 EACH	_____.____	_____.____
0690	658.5070 Signal Mounting Hardware (location) 0001. IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0692	659.1130 Luminaires Utility LED D	22.000 EACH	_____.____	_____.____
0694	659.2230 Lighting Control Cabinets 240/480 30-Inch	1.000 EACH	_____.____	_____.____
0696	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	34.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0698	661.0201 Temporary Traffic Signals for Intersections (location) 0001. IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0700	670.0101 Field System Integrator	1.000 EACH	_____.____	_____.____
0702	670.0201 ITS Documentation	1.000 EACH	_____.____	_____.____
0704	671.0142 Conduit HDPE 4-Duct 2-Inch	4,210.000 LF	_____.____	_____.____
0706	671.0222 Conduit HDPE Directional Bore 2-Duct 2-Inch	215.000 LF	_____.____	_____.____
0708	673.1225.S Install Pole Mounted Cabinet	1.000 EACH	_____.____	_____.____
0710	674.0300 Remove Cable	6,610.000 LF	_____.____	_____.____
0712	674.0400 Reinstall Cable	5,030.000 LF	_____.____	_____.____
0714	675.0300 Install Mounted Controller Microwave Detector Assembly	6.000 EACH	_____.____	_____.____
0716	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0718	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0720	677.9051.S Removing 50-FT Camera Pole	1.000 EACH	_____.____	_____.____
0722	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	75.000 LF	_____.____	_____.____
0724	678.0100.S Install Overhead Freeway DMS Full Matrix	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0726	678.0200 Fiber Optic Splice Enclosure	3.000 EACH	_____.____	_____.____
0728	678.0300 Fiber Optic Splice	221.000 EACH	_____.____	_____.____
0730	678.0400 Fiber Optic Termination	12.000 EACH	_____.____	_____.____
0732	678.0501 Communication System Testing	3.000 EACH	_____.____	_____.____
0734	678.0600 Install Ethernet Switches	2.000 EACH	_____.____	_____.____
0736	690.0250 Sawing Concrete	128,346.000 LF	_____.____	_____.____
0738	715.0502 Incentive Strength Concrete Structures	8,278.000 DOL	1.00000	8,278.00
0740	715.0603 Incentive Strength Concrete Barrier	6,009.000 DOL	1.00000	6,009.00
0742	715.0720 Incentive Compressive Strength Concrete Pavement	2,774.000 DOL	1.00000	2,774.00
0744	740.0440 Incentive IRI Ride	43,062.000 DOL	1.00000	43,062.00
0746	801.0117 Railroad Flagging Reimbursement	235,750.000 DOL	1.00000	235,750.00
0748	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	7,000.000 HRS	5.00000	35,000.00
0750	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	18,240.000 HRS	5.00000	91,200.00
0752	SPV.0035 Special 0001. Backfill Slurry	45.000 CY	_____.____	_____.____
0754	SPV.0035 Special 0002. Base Patching Concrete SHES Special	6,453.000 CY	_____.____	_____.____

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0756	SPV.0055 Special 0001. Incentive Density PWL	25,080.000 DOL	1.00000	25,080.00
0758	SPV.0055 Special 0002. Incentive Air Voids	29,420.000 DOL	1.00000	29,420.00
0760	SPV.0055 Special 0003. HMA Pavement LJD, Core Only Project	15,210.000 DOL	1.00000	15,210.00
0762	SPV.0060 Special 0001. Baseline CPM Progress Schedule	1.000 EACH	_____.____	_____.____
0764	SPV.0060 Special 0002. Monthly CPM Progress Schedule Updates	15.000 EACH	_____.____	_____.____
0766	SPV.0060 Special 0003. Concrete Barrier Type S42 End Anchor	24.000 EACH	_____.____	_____.____
0768	SPV.0060 Special 0004. Fastening Sewer Access Covers	78.000 EACH	_____.____	_____.____
0770	SPV.0060 Special 0005. Traffic Control Close-Open Freeway Entrance Ramp	66.000 EACH	_____.____	_____.____
0772	SPV.0060 Special 0006. Traffic Control Full Freeway Closure	18.000 EACH	_____.____	_____.____
0774	SPV.0060 Special 0007. Traffic Control Local Road Lane Closures	8.000 EACH	_____.____	_____.____
0776	SPV.0060 Special 0008. Survey Contract 1100-20-70/71	1.000 EACH	_____.____	_____.____
0778	SPV.0060 Special 0009. Mobilizations Emergency Pavement Repair	10.000 EACH	_____.____	_____.____
0780	SPV.0060 Special 0010. Marking Median Inlets Epoxy 6-Inch	107.000 EACH	_____.____	_____.____

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0782	SPV.0060 Special 0011. Concrete Barrier Type S42 Light Pole Base	3.000 EACH	_____.____	_____.____
0784	SPV.0060 Special 0012. Concrete Barrier Type S42A Light Pole Base	8.000 EACH	_____.____	_____.____
0786	SPV.0060 Special 0013. Concrete Barrier South Transition	1.000 EACH	_____.____	_____.____
0788	SPV.0060 Special 0014. Concrete Barrier North Transition	1.000 EACH	_____.____	_____.____
0790	SPV.0060 Special 0015. Utility Line Opening	35.000 EACH	_____.____	_____.____
0792	SPV.0060 Special 0016. Field Office Special	1.000 EACH	_____.____	_____.____
0794	SPV.0060 Special 0017. Drainpipe Exploration	1.000 EACH	_____.____	_____.____
0796	SPV.0060 Special 0018. Emergency Inlet Repair	10.000 EACH	_____.____	_____.____
0798	SPV.0060 Special 0019. Emergency Response to Traffic Involving Concrete Barrier Temporary	10.000 EACH	_____.____	_____.____
0800	SPV.0060 Special 0020. Emergency Response to Traffic Involving Crash Cushion	10.000 EACH	_____.____	_____.____
0802	SPV.0060 Special 1001. Poles Wood 60-FT	1.000 EACH	_____.____	_____.____
0804	SPV.0060 Special 1002. Wood Pole Lighting 60-FT	8.000 EACH	_____.____	_____.____
0806	SPV.0060 Special 1003. Luminaires Utility HPS 1000 Watts Floodlight	8.000 EACH	_____.____	_____.____
0808	SPV.0060 Special 1004. Concrete Bases Type B	2.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0810	SPV.0060 Special 1005. Luminaire Arms Single Member 4-Inch Clamp 4-FT	18.000 EACH	_____.____	_____.____
0812	SPV.0060 Special 1006. Maintenance of Lighting System	2.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 1007. Lighting System Integrator	2.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 1008. Lighting System Survey	2.000 EACH	_____.____	_____.____
0818	SPV.0060 Special 2000. Removing Overhead Freeway DMS	1.000 EACH	_____.____	_____.____
0820	SPV.0060 Special 2001. Removing Controller Cabinet	2.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 2002. Removing Controller Cabinet Base	2.000 EACH	_____.____	_____.____
0824	SPV.0060 Special 2003. Ground Rod	3.000 EACH	_____.____	_____.____
0826	SPV.0060 Special 2004. Removing Microwave Detector	1.000 EACH	_____.____	_____.____
0828	SPV.0060 Special 2005. Removing Pole	2.000 EACH	_____.____	_____.____
0830	SPV.0060 Special 2006. Install Salvaged Pole	1.000 EACH	_____.____	_____.____
0832	SPV.0060 Special 3000. Install Poles Type 9	2.000 EACH	_____.____	_____.____
0834	SPV.0060 Special 3001. Install Poles Type 9 Special	1.000 EACH	_____.____	_____.____
0836	SPV.0060 Special 3002. Install Monotube Arms 30-FT	2.000 EACH	_____.____	_____.____

Proposal ID: 20241008006 **Project(s):** 1100-20-70, 1100-20-71

Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0838	SPV.0060 Special 3003. Install Monotube Arms 45-FT TYPE 9/10 Spec Pole	1.000 EACH	_____.____	_____.____
0840	SPV.0060 Special 3004. Trnspt & Install Stat Furn Tra Si Ca (IH 41 NB Ram & CTH EE W Hampton Ave)	1.000 EACH	_____.____	_____.____
0842	SPV.0060 Special 3005. Temp Non-Interse Det Sys For Int (IH 41 NB Ramps & CTH EE (W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0844	SPV.0060 Special 3006. Trnspt & Install State Furn Rad DE(IH 41 NB Ramps & CTH EE W. Hampton Ave)	1.000 EACH	_____.____	_____.____
0846	SPV.0060 Special 3007. Trnspr Traffic Sig & Int Light Mat (IH 41 NB Ramps & CTH EE W Hampton Ave)	1.000 EACH	_____.____	_____.____
0848	SPV.0060 Special 3008. Install Fiber Optic Communications in Cabinet IH 41 NB Ramps and CTH EE	1.000 EACH	_____.____	_____.____
0850	SPV.0060 Special 4000. Embedded Galvanic Anodes	385.000 EACH	_____.____	_____.____
0852	SPV.0060 Special 4010. Micropile Verification Load Test	1.000 EACH	_____.____	_____.____
0854	SPV.0060 Special 4011. Micropile Proof Load Test	4.000 EACH	_____.____	_____.____
0856	SPV.0060 Special 4030. Vegetation Removal B-40-358	1.000 EACH	_____.____	_____.____
0858	SPV.0060 Special 4031. Vegetation Removial B-40-359	1.000 EACH	_____.____	_____.____
0860	SPV.0060 Special 4040. Strapping C-40-47	3.000 EACH	_____.____	_____.____

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Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0862	SPV.0060 Special 4060. Cleaning and Painting Bearings	14.000 EACH	_____.____	_____.____
0864	SPV.0060 Special 4070. Pier Widening Access	1.000 EACH	_____.____	_____.____
0866	SPV.0060 Special 4080. Resetting Bearings B-40-358	2.000 EACH	_____.____	_____.____
0868	SPV.0060 Special 4500. Tension Anchor Rods	16.000 EACH	_____.____	_____.____
0870	SPV.0060 Special 4501. Remove Catwalk	6.000 EACH	_____.____	_____.____
0872	SPV.0060 Special 4502. Install ID Plaque	2.000 EACH	_____.____	_____.____
0874	SPV.0060 Special 4503. Secure/Replace Handhole Cover	2.000 EACH	_____.____	_____.____
0876	SPV.0060 Special 8000. Reconnect Storm Sewer	103.000 EACH	_____.____	_____.____
0878	SPV.0060 Special 8001. Temporary Storm Sewer Plug	9.000 EACH	_____.____	_____.____
0880	SPV.0060 Special 8002. Bulkhead Pipe	2.000 EACH	_____.____	_____.____
0882	SPV.0085 Special 0001. Native Pollinator Seed Mixture No. 90A	146.000 LB	_____.____	_____.____
0884	SPV.0090 Special 0001. Concrete Barrier Double Faced	333.000 LF	_____.____	_____.____
0886	SPV.0090 Special 0002. Pipe Underdrain 6-Inch Special	3,352.000 LF	_____.____	_____.____
0888	SPV.0090 Special 1001. Cable Aerial Aluminum 6 AWG Triplex	4,410.000 LF	_____.____	_____.____

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Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0890	SPV.0090 Special 2000. Outdoor Rated Network Cable	820.000 LF	_____.____	_____.____
0892	SPV.0090 Special 3000. Fiber Optic Warning Tape	499.000 LF	_____.____	_____.____
0894	SPV.0090 Special 4000. 9.625-Inch Micropile Foundation	4,569.000 LF	_____.____	_____.____
0896	SPV.0090 Special 8000. Cleaning Storm Sewer	1,000.000 LF	_____.____	_____.____
0898	SPV.0165 Special 4000. Removing Loose Concrete	764.000 SF	_____.____	_____.____
0900	SPV.0165 Special 4010. Temporary Shoring Railroad	650.000 SF	_____.____	_____.____
0902	SPV.0165 Special 4501. Repair Galavnized Coating	3.000 SF	_____.____	_____.____
0904	SPV.0180 Special 0002. High Friction Surface Treatment	13,975.000 SY	_____.____	_____.____
0906	SPV.0180 Special 0003. Excavation of Phragmites Contaminated Soil	100.000 SY	_____.____	_____.____
0908	SPV.0180 Special 0004. Herbicide Application	100.000 SY	_____.____	_____.____
0910	SPV.0180 Special 4000. Polyester Polymer Concrete Overlay	10,452.000 SY	_____.____	_____.____
0912	SPV.0180 Special 4001. Abutment Seat Cleaning and Sealing	134.000 SY	_____.____	_____.____
0914	SPV.0180 Special 4010. Grouting Existing Riprap	56.000 SY	_____.____	_____.____
0916	SPV.0195 Special 0001. HMA Longitudinal Joint Repair	362.000 TON	_____.____	_____.____

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Federal ID(s): WISC 2025004, WISC 2025005

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0918	SPV.0195 Special 4000. Excavation, Hauling, and Disposal of Solid Waste Soil	194.000 TON	_____._____	_____._____
0920	511.1100 Temporary Shoring	600.000 SF	_____._____	_____._____
0922	643.0500 Traffic Control Flexible Tubular Marker Posts	42.000 EACH	_____._____	_____._____
0924	643.0600 Traffic Control Flexible Tubular Marker Bases	42.000 EACH	_____._____	_____._____
0926	646.1020 Marking Line Epoxy 4-Inch	200.000 LF	_____._____	_____._____
	Section: 0001		**Total:**	_____._____

Total Bid: _____._____