HIGHWAY WORK PROPOSAL

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

Proposal Number: 004

| COUNTY | STATE PROJECT | FEDERAL | PROJECT DESCRIPTION | HIGHWAY |
|---|---|---|---|---|
| Waukesha | 1060-10-72 | N/A | Ih 94 East West Freeway; Moorland I/C | IH 094 |

# 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: $75,000.00<br>Payable to: Wisconsin Department of Transportation | Attach Proposal Guaranty on back of this PAGE. |
| Bid Submittal<br>Date: May 9, 2023<br>Time (Local Time): ~~9:00 am~~ 11:00 am | Firm Name, Address, City, State, Zip Code<br>SAMPLE<br>NOT FOR BIDDING PURPOSES |
| Contract Completion Time<br>October 31, 2023 | This contract is exempt from federal oversight. |
| Assigned Disadvantaged Business Enterprise Goal 0% | |

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

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

Subscribed and sworn to before me this date _____

| | |
|---|---|
| (Signature, Notary Public, State of Wisconsin) | (Bidder Signature) |
| (Print or Type Name, Notary Public, State Wisconsin) | (Print or Type Bidder Name) |
| (Date Commission Expires) | (Bidder Title) |

Notary Seal

Type of Work: For Department Use Only

Excavation, Base, HMA Pavement, Asphaltic Surface, Curb and Gutter, Sidewalk, Storm Sewer, Guardrail, Fencing, Signs, Pavement Marking, Street Lights, Traffic Signals, Bridge Rehabilitations.

| | |
|---|---|
| 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<br>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.

# Special Provisions

## Table of Contents

# SPECIAL PROVISIONS

## 1. General.

Perform the work under this construction contract for Project 1060-10-72, IH 94 East West Freeway, Moorland Interchange, IH 94, Waukesha 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, 2023 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 (20230113)

## 2. Scope of Work.

The work under this contract shall consist of removals, excavation, base aggregate dense, select crushed material, concrete base, HMA pavement, concrete curb & gutter, concrete sidewalk, concrete barrier, storm sewer, erosion control, restoration, traffic control, permanent signing, pavement marking, traffic signals, street lighting, ITS and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

## 3. Prosecution and Progress.

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.

Attend weekly scheduling meetings to discuss near term schedule activities, address any long-term scheduling 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 including lane closure schedules to be performed and identifying issues requiring engineering action or input. Subcontractors shall be in attendance at the weekly progress meetings if identified on the two week "look ahead."

**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.

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

**Access During Construction**

Maintain access to properties along the project for local residents, businesses, and emergency vehicles. Access for all driveways shall remain open at all times except when paving at local resident driveways. Do not fully close commercial driveways without the approval of the property owner and the engineer. If a property owner agrees to fully close a driveway provide a minimum of 48 hours' notice of the driveway closure. Construct commercial driveways in halves or by closing one access at a time for properties that have multiple driveways. Restore private and commercial entrances to include a crushed aggregate surface within the same working day of entrance removal.

**Work Restrictions**

During Stage 1 install storm sewer laterals across northbound Moorland Road (CTH O) during overnight hours using a single lane closure in addition to the single lane closure that is shown in the Stage 1 traffic control plans. Backfill the storm sewer trenches and install Base Patching Concrete SHES prior to reopening the roadway. The storm sewer laterals may be installed in stages over multiple nights to allow for one lane of traffic to be maintained on Moorland Road. Lane Rental Fee Assessment will be applied if northbound Moorland Road is not reopened to two through lanes by 6:00 AM.

During Stage 1 or Stage 2 install the traffic signal loops for the IH 94 WB exit ramp to NB Moorland Road under the northbound Moorland Road pavement during overnight hours using a single lane closure in addition to the single lane closure that is shown in the Stage 1 traffic control plans. Install Base Patching Concrete SHES prior to reopening the roadway. The traffic signal loops may be installed in stages over multiple nights to allow for one lane of traffic to be maintained on Moorland Road. Lane Rental Fee Assessment will be applied if northbound Moorland Road is not reopened to two through lanes by 6:00 AM.

During Stage 2 mill and overlay northbound Moorland Road as shown in the plans during overnight hours. Maintain one open lane on northbound Moorland Road at all times. Any pavement that is milled shall be overlaid with proposed asphalt prior to reopening the closed lane the next morning. Traffic shall not drive on a milled surface. The mill and overlay operation may occur over multiple nights to allow for one lane of traffic to be maintained on northbound Moorland Road. Lane Rental Fee Assessment will be applied if northbound Moorland Road is not reopened to two through lanes by 6:00 AM.

**Work Zone Restrictions**

Accommodate pedestrians at all times. Maintain pedestrian access throughout the project as shown in the traffic control plan unless otherwise approved in writing by the engineer. The engineer shall not allow sidewalk or a curb ramp to be closed to pedestrians unless a temporary pedestrian access route is in place.

During Stage 1 construct the Moorland Road and Carpenter Road intersection by fully closing Carpenter Road to traffic. Residents needing to access the two driveways within the work zone shall access their driveway from the east along Carpenter Road.

During Stage 1 construct the Westmoor Country Club Access Road fully closed to traffic for a maximum of 1 calendar day. Provide Westmoor Country Club a minimum of 72 hours' notice of the closure. Utilize flagging when possible to minimize the time when a full closure is in place. The access road may be open with traffic utilizing a base aggregate dense surface until paving. The length of the access road closure may be allowed to change if the contractor obtains permission for a longer closure in writing from Westmoor Country Club prior to closing the roadway. Provide the engineer with any written agreements with Westmoor Country Club prior to closing the roadway.

During Stage 1 construct the Westmoor Country Club driveway in halves open to traffic unless the contractor obtains written permission from Westmoor Country Club to fully close the driveway. Provide any written agreements to the engineer prior to fully closing the driveway.

**Enhanced Final Liquidated Damages**

*Replace standard spec 108.11 paragraph (3) as follows:*

The department will assess $4000 in daily liquidated damages. These liquidated damages reflect the cost of engineering, supervision, and a portion of road user costs.

**Interim Liquidated Damages**

Stage 1: 55 Calendar Days

At the beginning of Stage 1, close Ramp C to all traffic for a maximum of 55 calendar days. Do not reopen until completing the following work: grading, base aggregate dense, select crushed material, concrete base, HMA Pavement, concrete curb & gutter, concrete barrier, guardrail, storm sewer, street lighting, and temporary traffic signals.

If the contractor fails to complete the work necessary to reopen Ramp C to traffic within 55 calendar days, the department will assess the contractor $6,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 55 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

**Sequence of Operations**

Stage 1

- Construct Ramp C.
- Construct northbound Moorland right turn lane to IH 94 EB Ramp (Ramp D) and Carpenter Road intersection.
- Construct curb ramps on west side of Moorland Road and work on median between Ramp E and Ramp F at night.
- Install storm sewer laterals across northbound Moorland Road.

Stage 2

- Construct northbound Moorland Road to IH 94 WB Ramps (Ramp E).

## 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.

### 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:

- Moorland Road Southbound - $500 per lane, per hour broken into 15-minute increments
- Moorland Road Northbound - $3,000 per lane, per hour broken into 15-minute increments
- Moorland Road Northbound left turn to Ramp E - $1,000 per lane, per hour broken into 15-minute increments
- Ramp E - $1,000 per lane, per hour broken into 15-minute increments
- Ramp F - $1,000 per lane, 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-108-065 (20161130)

## 5. Traffic.

The work under this contract shall confrom to the requirements of standard spec 643, the Wisconsin Manual on Uniform Traffic Control Devices (WMUTCD) and as herein provided.

Accomplish the construction sequence as detailed in the traffic control section of the plans and as described herein.

Submit to the engineer for approval a detailed traffic control plan for any changes to the proposed traffic control plan shown in the plans. Submit the plan 14 days prior to the Pre-Constructon Conference, or if after the Pre-Construction Conference 14 days prior to the intended use of the revised traffic control.

*Supplement standard spec 643.3.1 with the following:*

Provide the Waukesha County Sheriff's Department, the Wisconsin State Patrol, City of Brookfield Police Department, City of Brookfield Fire 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 94 or Moorland Road 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.

*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 (20211227)

### Work Restrictions

Maintain three through lanes of traffic on westbound IH 94 at all times unless otherwise shown in the traffic control plans.

Maintain two through lanes of traffic on Moorland Road unless otherwise shown in the traffic control plans.

All ramps at the IH 94 and Moorland Road Interchange to remain open to traffic unless otherwise shown in the plans.

Maintain access to all business driveways unless otherwise shown to be closed in the Traffic Control Plans.

All work zone clear zones and drop offs shall be according to standard spec 104.6.1.2.3.

Do not park or store materials within 8 feet of the traveled way or a turn lane open to traffic during non-work hours.

Do not place any items within 50-feet of the railroad right-of-way, including items that could foul the same area. Including but not limited to signing, equipment, or material. This includes at-grade crossings and structures with railroad under or over. If this is not adhered to Railroad Protective Liability Insurance will be required of the contractor and incidental to the contract.

**Work Hour Definitions**

Northbound Moorland Road (CTH O), Northbound Moorland Road left turn lanes to Ramp E, Ramp D, Ramp E, and Ramp F

- Daytime Hours: 6:00 AM to 9:00 PM Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.
- Overnight Hours: 9:00 PM to 6:00 AM Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.

Southbound Moorland Road (CTH O):

- Peak Hours: 11:00 AM to 9:00 PM Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.
- Off-Peak Hours: 9:00 PM to 11:00 AM Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.

**Schedule of Operations:**

Stage 1:

*Vehicles:*

- Maintain two through lanes on northbound Moorland Road and three lanes on SB Moorland Road unless otherwise shown on the traffic control plans.
- Close Ramp C.
- Close northbound Moorland Road and Carpenter Road intersection.
- Close northbound Moorland Road left turn lane to Ramp E, Ramp E, and Ramp F to construct curb ramps and Ramp E median improvements.

*Pedestrians:*

- Sidewalk along Moorland Road open at all times. Establish temporary pedestrian access route when curb ramps are under construction.

Stage 2:

*Vehicles:*

- Maintain two through lanes on northbound and southbound Moorland Road unless otherwise shown on the traffic control plans.
- Close inside lane of southbound Moorland Road during off-peak hours to construct northbound Moorland left turn lane to Ramp E.
- Northbound Moorland Road left turn lane to Ramp E closed for duration of stage.
- All ramps open to traffic.
- Carpenter Road open to traffic.

*Pedestrians:*

- Sidewalk along Moorland Road open at all times

**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** |
| Lane and shoulder 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 94 or Moorland Road (CTH O) 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, June 30, 2023 to 6:00 AM Wednesday, July 5, 2023 for Independence Day;
- From noon Friday, September 1, 2023 to 6:00 AM Tuesday, September 5, 2023 for Labor Day;
- From noon Wednesday, November 22, 2023 to 6:00 AM Monday, November 27, 2023 for Thanksgiving.

stp-107-005 (20210113)

## 7. Utilities.

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

stp-107-065 (20080501)

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.

Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

Contact each utility company listed in the plans prior to preparing bids to obtain current information on the status of existing and any newly relocated utility facilities within the project limits.

**The following utility companies have facilities within the project area that need adjustments:**

**AT&T Legacy – Communications** has facilities within the project limits. The following will be relocated prior to construction:

AT&T Legacy will relocate the fiber duct along Ramp C between Station 573+50 C and Station 578+25 C to 3 feet off the existing and proposed right-of-way. In addition, the duct package will be lowered to 10 feet below existing ground and 12 feet below existing ground at the proposed inlet at Station 575+37.5, 39.5' LT.

**AT&T Wisconsin – Communications** has facilities within the project limits. The following will be relocated prior to construction:

- AT&T will discontinue in place the direct buried 600 pair copper cable that runs from pedestal at Station 28+00, 49' RT to pedestal at Station 33+89, 60' RT. This cable also will be discontinued from ped at Station 33+89 back out along the RAMP C and the frontage road to the golf course.
- AT&T contractor will remove pedestal at Station 33+89, 60' RT and discontinue cables.
- AT&T has a TRANSITE duct with a 6 strand Fiber cable that crosses the project from the manhole at Station 28+28,112' LT across Moorland Road to the cabinet at Station 28+14, 70' RT. The fiber will be cut out and removed out of the duct before construction.

The following work will be completed during construction and will require 1 day per instance. In addition to the required Trans 220 notices of 14-16 days and 3 days, give AT&T 5 days notice prior to sewer work in the area:

- AT&T has a direct buried 400 pair cable that crosses Carpenter Road in close proximity to the sewer crossing at Station 26+48, 47' RT. AT&T will need one day to adjust.
- The TRANSITE Duct is in conflict with the sewer crossings at Station 28+05, 42' LT and at Station 28+05, 37' RT. AT&T will take one day to remove the duct during construction. Provided advance notice of when the site will be available.

**Brookfield Water Utility – Water** has facilities within the project limits. Improvements will be made by the contractor as part of the project. Construct water items as shown in the plans and in the bid items for this project.

**City of Brookfield - Sewer** has facilities within the project limits. Improvements will be made by the contractor as part of the project. Construct sewer items as shown in the plans and in the bid items for this project.

**TDS Metrocom LLC – Communications** has facilities within the project limits. The following will be relocated prior to construction:

TDS will discontinue in place facilities in the following locations:
Begin at existing MH 900 at Station 22+47, 26' RT to 23+00, 28' RT to 24+00, 31' RT to 25+00, 35' RT to 26+00, 35' RT to 27+00, 37' RT, through existing MH 15560 at Station 27+60, 40' RT continuing to 28+00, 48.5' RT to 29+00, 50 RT to 30+00, 51' RT to 31+00, 52' RT to 32+00, 57' RT to 33+00, 54' RT, ending at existing MH 15561 at Station 33+91, 59' RT. The highway contractor must contact TDS before removing or adjusting any TDS facility, to verify that the facility has been discontinued. The contractor must not assume that an unmarked facility has been discontinued.

TDS will install facilities in the following locations:

Install 2" conduit beginning at existing MH 900 at Station 22+47, 26' RT to 23+00, 30' RT to 24+00, 35'RT to 25+00, 36' RT to 26+00, 35' RT to 27+00 44' RT, through existing MH 15560 at Station 27+60, 40' RT, continuing (bend) 27+98, 52' RT, (bend) to 28+27, 79' RT to 29+00, 80' RT to 30+00, 80' RT to 31+00, 80' RT (bend) to 31+75, 81' RT to 32+00, 77' RT (bend) to 32+49, 68' RT to 33+00, 68' RT (bend) to 33+63, 69' RT ending at existing MH 15561 at Station 33+91, 59' RT.

**WisDOT – Communications** has existing facilities inside the project limits. Improvements will be made by the contractor as part of the project. Construct communication items as shown in the plans and in the bid items for this project.

**WisDOT – Street Lighting** has existing facilities inside the project limits. Improvements will be made by the contractor as part of the project. Construct street lighting items as shown in the plans and in the bid items for this project.

**WisDOT – Signal** has existing facilities inside the project limits. Improvements will be made by the contractor as part of the project. Construct street lighting items as shown in the plans and in the bid items for this project.

**WE Energies – Electric** has facilities within the project limits. The following will be adjusted during construction:

Five days will be required prior to final paving to adjust the manhole at Station 35+67, 82' LT to final grade. Provided advance notice of when the site will be available.

It is imperative that the highway contractor contact We Energies before removing any electrical underground cables, to verify that they have been discontinued and carry no electrical current. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification.

We Energies Electric Dispatch, 1 (800) 662-4797

**WE Energies – Gas** has facilities within the project limits. The following will be relocated prior to construction:

- 12" steel gas main will be replaced from Station 26+48, 22' LT to Station 28+20, 22'LT
- Station 1+78 Carpenter Road, existing service will be replaced with a 1" PE service.

All new 12" main to be installed at an elevation of 834.00 or minimum depth of 96" from final grade. New service to be installed at an elevation of 836.5 or minimum depth of 90" from final grade.

It is imperative that the highway contractor contact We Energies before removing any gas facilities to verify that they have been discontinued and carry no natural gas. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification.

We Energies Gas Dispatch, 1 (800) 261-5325

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

**Everstream - Communications**

**Spectrum (Charter) – Communications**

**Verizon – Communications**

**Windstream – Communications**

Windstream has a handhole approximately 400 feet north of the Ramp E intersection that sits along the east right-of-way of Moorland Rd and (1) 2" duct that continues north and south (from this hand hole) along the east right-of-way of Moorland Road.

Windstream has an empty conduit along the east side of the Moorland Road. The exact location and depth of the conduit are unknown.

## 8. Referenced Construction Specifications.

Construct the work enumerated below conforming to the "Standard Specifications for Sewer and Water Construction in Wisconsin," 6th Edition. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

- Water Main Offset 12-Inch
- Adjust Sanitary Sewer Manhole
- Sanitary Manhole Seal

stp-105-002 (20130615)

## 9. Hauling Restrictions.

Conduct operations in such a manner that does not impede the free flow of traffic on any roadway open to traffic. Do not haul on local roads without the approval of the appropriate jurisdiction.

## 10. Information to Bidders, WPDES General Construction Storm Water Discharge Permit.

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Amanda Johansen (amanda.johansen@dot.wo.gov) at (262) 521-4465. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

## 11. 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)

## 12. 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 top soil 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 Craig Webster, (262) 574-2141, craig.webster@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.

(15) Dewatering is incidental.

sef-107-010 (20180104)

**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 any erosion from the discharge velocity that would cause release of sediment downstream. Dewatering is considered incidental to the contract.

**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. Do not allow any 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.

Prior to each dewatering operation, submit to the department a separate ECIP amendment for sediment removal. Guidance on dewatering can be found on the Wisconsin DNR website located in the Storm Water Construction Technical Standards, Dewatering Code #1061,

http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.

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. Dewatering is considered incidental to the contract.

**Maintaining Drainage**

Maintain drainage at and through worksite during construction conforming to standard spec 107.20, 204.3.2.1(3), 205.3.3 and 520.3.1(2). 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 contract.

SER-107-003 (20161220)

**Saw Cut Slurry**

Saw cut slurry that may be generated as part of this contract shall be collected and actively managed. Prevent deposition of saw cut slurry into wetlands, drainage courses and onto private property. Management of saw cut slurry is incidental to construction and no separate payment will be made.

**Concrete Washout Containment**

All concrete trucks shall wash out into a containment system located sufficiently away from the work area to prevent runoff into wetlands and drainage courses. The contractor shall provide a construction detail and location of the containment system with the ECIP and reviewed by the engineer prior to use. Concrete washout containment is incidental to construction and no separate payment will be made.

## 13. 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)

## 14. Coordination with Businesses and Residents.

The contractor shall prepare and distribute a newsletter mailed to all property owners, business owners, tenants, and other stakeholders in the project vicinity prior to the start of construction and at all major stage changes. The newsletter shall provide information about the project how traffic along the project corridor and access to businesses will be maintained, and a project schedule.

The department will create and maintain a project website.

## 15. Available Documents.

The following documents are available for review:

- Geotechnical Investigation Report
- Pavement Type Selection Report
- Environmental Document
- Technical Infeasibility Report

Please contact Amanda Johansen, (262) 521-4465, amanda.johansen@dot.wi.gov, to obtain a copy of these documents.

## 16. Notice to Contractor, Asbestos Containing Materials on Structure.

Paul M. Garvey, License Number All-117079, inspected Structures B-67-0052 and B-67-0053 for asbestos on 3/23/2022. Regulated Asbestos Containing Material (RACM) was found on this structure in the following locations and quantities: mercury vapor lights affixed to underside of bridge decks. 6 lighting units in total

A copy of the inspection report is available from Amanda Johansen, (262) 521-4465, amanda.johansen@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)

## 17. Notice to Contractor – Traffic Signal Bases.

Traffic signal bases in close proximity to underground utilities may require hydro excavation to excavate for the traffic signal base. The cost of hydro excavation is incidental to the cost of the traffic signal base.

## 18. Notice to Contractor – Traffic Signal Equipment Lead Time.

Order traffic signal equipment as soon as possible to assure the equipment is procured in a timely fashion and, therefore, installed, inspected, and ready for turn-on at the required date.

## 19. Notice to Contractor – 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)

## 20. 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 for Type 1 Portland Cement. 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.

stp-204-050 (20210708)

## 21. Removing Ramp Closure Gate, Item 204.9060.S.0001.

### A Description

This special provision describes the removing ramp gate and power source 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 of off the project site.

Properly recycle 12V DC deep cycle battery.

### C Construction

Remove ramp gate, concrete base that ramp gate is mounted to, solar panel and pole, concrete base that solar panel pole is mounted to, pull box, and 12V power source in pull box.

### D Measurement

The department will measure Removing Ramp Gate by the individual unit, acceptably completed.

### E Payment

*Add the following to standard spec 204.5:*

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 204.9060.S.0001 | Removing Ramp Gate | EACH |

Payment is full compensation for removing the ramp gate, concrete base that ramp gate is mounted to, solar panel and pole, concrete base that solar panel is mounted to, pull box, and 12V DC deep cycle battery.

stp-204-025 (20150630)

## 22. Removing Storm Sewer Chamber, Item 204.9060.S.0002.

### A Description

This special provision describes the removal of an existing storm sewer chamber.

### B (Vacant)

### C Construction

Remove the chamber and dispose of all materials off of the project site.

### D Measurement

The department will measure Removing Storm Sewer Chamber by the individual unit, acceptably completed.

### E Payment

*Add the following to standard spec 204.5:*

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 204.9060.S.0002 | Removing Storm Sewer Chamber | EACH |

Payment is full compensation for removing the storm sewer chamber, and for disposing of all surplus materials.

stp-204-025 (20150630)

## 23. Removing Lighting Units, Item 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 of 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 under the bid item 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 the individual unit, acceptably completed.

### E Payment

*Add the following to standard spec 204.5:*

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

stp-204-025 (20150630)

## 24. Removing Distribution Center, Item 204.9060.S.1002.

### A Description

This special provision describes removing an existing highway lighting distribution center and electrical service pedestal as shown on the plans, according to the pertinent provisions of standard spec 204, and as hereinafter provided.

### B (Vacant)

### C Construction

Remove the lighting distribution center and the electrical service pedestal and dispose off the project site.

The department will issue the demolition request to WE-Energies. Coordinate with the utility for disconnection of services. The department will pay any fees charged by the utility.

Removal of the concrete base will be paid under a separate bid item.

### D Measurement

The department will measure Removing Distribution Center by the individual unit, acceptably completed.

### E Payment

*Add the following to standard spec 204.5:*

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 204.9060.S.1002 | Removing Distribution Center | EACH |

Payment is full compensation for removing and disposing of luminaires, attached conduits, attached junction boxes, and hardware.

stp-204-025 (20150630)

## 25. Removing Traffic Signals IH 94 WB On Ramp & CTH O (S Moorland Rd), Item 204.9060.S.3001.

### A Description

This special provision describes removing existing traffic signals at the intersection of IH 94 WB On Ramp & CTH O (S Moorland Rd) 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), vehicle detection equipment, 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, except for Traffic signal LED and luminaire lamp, switch, and ballasts 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. Traffic signal LED and luminaire lamp, switch, and ballast disposal shall be paid for as a separate item.

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 Removing Traffic Signals IH 94 WB On Ramp & CTH O as an individual unit for each intersection, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 204.9060.S.3001 | Removing Traffic Signals IH 94 WB On Ramp & CTH O (S Moorland Rd) | EACH |

stp-204-025 (20150630)

## 26. 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-08-00toc.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 8-15.

**B.2 Testing**

(1) Conform to ASTM D2950 and CMM 8.15 for density testing and gauge monitoring methods. Conform to CMM 8-15.10.4 for test duration and gauge placement.

**B.3 Equipment**

**B.3.1 General**

(1) Furnish nuclear gauges according to CMM 8-15.2.

(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 CMM 8-15.7.

#### B.3.2.2 Comparison Monitoring

(1) Conduct reference site monitoring for both QC and QV gauges according to CMM 8-15.

### 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 8-15.10.2.

(2) Determine required number of tests according to CMM 8-15.10.2.1.

(3) Determine random testing locations according to CMM 8-15.10.3.

#### 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 8-15.10.2.

(2) Determine required number of tests according to CMM 8-15.10.2.2.

(3) Determine random testing locations according to CMM 8-15.10.3.

#### 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 8.15. 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.

stp-460-020 (20181119)

## 27. Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.5001.

### A Description

This special provision describes furnishing and placing polystyrene insulation board as the plans show.

### B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230 as modified in this special provision.

Delete flammability requirement.

#### B.1 Certification

Before installation, obtain from the manufacturer a certification indicating compliance and furnish it to the engineer.

### C Construction

Insulation shall be used where a water main and/or water service crosses a storm sewer. Insulation shall be installed at locations shown on the plans and as directed by the engineer according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

Insulation dimensions shall be 4 feet x 8 feet and installed in two layers for a total thickness of 4-inches. Joints between such layers shall be staggered.

### D Measurement

The department will measure Insulation Board Polystyrene, 2-Inch by area in square yards of work, completed and accepted.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 612.0902.S.5001 | Insulation Board Polystyrene, 2-Inch | SY |

Payment is full compensation for all excavation; and for furnishing and placing the insulation board.

stp-612-005 (20030820)

## 28. 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)

## 29. 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)

## 30. Fertilizer Type B, Item 629.0210.

*Replace standard spec 629.2.1.3 with the following:*

(1) Fertilizer Type B 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 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 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.

SER-629-001 (20230109)

## 31. Seeding Mixture No. 30, Item 630.130.

*Replace standard spec 630.2.1.5.1.1 Table 630-1 Highway Seed Mixtures with the following:*

Conform to the following the species, proportions, purity, and germination:

| Species | Purity Minimum % | Germination Minimum % | Mixture Proportion % |
|---|---|---|---|
| Perennial Ryegrass | 97 | 90 | 10 |
| Hard Fescue | 97 | 85 | 15 |
| Red Fescue | 97 | 85 | 25 |
| Salt Grass | 98 | 85 | 20 |
| Tall Fescue | 98 | 85 | 30 |

*Replace standard spec 630.3.5 (1) with the following:*

(1) Use the following sowing rates for the seeds in pounds per 1000 square feet:

Seed Mixture 30 at 5.0 pounds

SER-630-001 (20230109)

## 32. 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, ½-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)

## 33. 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)

## 34. Sign Bridge Identification Plaques.

*Supplement standard spec 632.5 with the following:*

(5) Payment for Sign Bridge and Overhead Sign Support bid items is full compensation for providing and installing sign bridge identification plaques and mounting hardware as shown on the standard detail drawing in the plans for each existing and new sign bridge or overhead sign support.

SER-641-001 (20160902)

## 35. Traffic Control Meetings and Traffic Control Scheduling.

Every Wednesday by 10:00 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 at a date and time agreed upon by the contractor and engineer 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 meeting.

At a date and time agreed upon by the contractor and engineer, 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. 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)

## 37. 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 standard 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 Ms. Bree Johns-Konkol, tel. (414) 266-1170.
2. Milwaukee County Grounds, 10191 West Watertown Plank Road, Wauwatosa, 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 tag-outs with manufactured tags and endorse them with the date and the name of the contractor. Clear tag-outs 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.

*Replace standard spec 651.3.3 (3) with the following:*

(3) Request a signal inspection of the signal installation to the engineer after completing the Prerequisites for Underground Inspection checklist or Prerequisites for Above Ground Inspection checklist at least five working days prior to the time of the requested inspection. Notify the department's Electrical Field Unit at (414) 266-1170 to coordinate the inspection. The department's Region Electrical personnel will perform the inspection. In the event of deficiencies, request a re-inspection when the work is corrected. The engineer will not authorize continuation to aboveground work or turn-on until the contractor corrects all deficiencies.

*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 Tom Grisa, City of Brookfield Director of Public Works at (262) 787-3919 or grisa@ci.brookfield.wi.us for the city 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 659.3.1:*

Contractor shall be responsible to maintain adequate 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. Contractor shall coordinate with WE Energies and City of Brookfield for the existing poles with luminaires to remain in place until new lighting is installed and operational. Installation of temporary lighting not shown on lighting plans shall be incidental in this contract. Contractor shall be responsible to submit a redline markup plans for any additional temporary lighting to the engineer for approval prior to installation.

## 38. 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 boxes; 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 boxes.

## 39. Install Conduit Into Existing Item, Item 652.0700.S.

### A Description

This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

### B Materials

Use conduit, 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 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 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 (20100709)

## 40. Concrete Control Cabinet Bases Type 9 Special.

*Add the following to standard spec 654.3:*

(3) Construct the concrete cabinet base according to the construction detail provided in the project plans.

## 41. Electrical Service Meter Breaker Pedestal.

*Add the following to standard spec 656.2.3:*

The department will be responsible for the electric service installation request for any department maintained facility.

Electric utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

*Add the following to standard spec 656.3.4:*

Install the cabinet base and meter breaker pedestal first, so the electric utility company can install the service lateral. 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 electric utility company.

*Add the following to standard spec 656.5(3):*

Payment for grading the service trench, replacing topsoil, fertilizer, seed, and mulch will be incidental to this work unless the bid items are in the contract and then they will be paid for at the contract price.

## 42. Traffic Signals, General.

All work shall be according to the plans and the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, 2023 Edition, and these special provisions.

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

Notify the department's Electrical Field Unit (EFU) at (414) 266-1170 at least three weeks prior to the beginning of the traffic signal work.

Furnish the engineer with material lists and specifications of all traffic control equipment for approval prior to installation.

## 43. Traffic Signal Faces.

*Add the following to standard spec 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.

## 44. Pedestrian Signal Faces 16-Inch.

*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.

## 45. Pedestrian Push Buttons.

*Replace standard spec 658.2(5) with the following*:

For pedestrian push buttons: furnish freeze-proof ADA compliant pedestrian push buttons made by a department-approved manufacturer. The contractor shall place a Size 1, Type H reflective (R10-3EL, R, D) sign sticker (per state sign plate), message series – B, directly above each push button. Include a directional arrow or arrows on the sign as the plans show.

## 46. Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.

### A Description

This special provision describes the 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 by the department's hazardous waste disposal vendor.

**B Materials**

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**

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.

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 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 ten percent of all fixtures to be disposed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 659.5000.S | Lamp, Ballast, LED, Switch Disposal by Contractor | EACH |

Payment for Lamp, Ballast, LED, Switch Disposal by Contractor is full compensation for handling, packaging, labeling and scheduling disposal with the hazardous waste vendor.

The department will pay separately for the work under which the lamps, ballasts LED or Switches are removed from service.

stp-659-500 (20220107)

## 47. Temporary Traffic Signals for Intersections CTH O & IH 94 WB to NB Off Ramp, Item 661.0201.3001.

*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. 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 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 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.

*Append standard spec 661.3.2.6 with the following:*

(6) Remove the CCTV camera, hardware, mounting brackets and cabling from the temporary traffic signal installation and return it to the department.

*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; for removing and delivering the CCTV camera, hardware, mounting brackets and cabling from the temporary traffic signal installation to the department.

## 48. Ramp Closure Gates 40-FT, Item 662.1040.S.

### A Description

This special provision describes providing freeway on-ramp closure gates on type 5 steel luminaire poles.

### B Materials

### B.1 General

Provide five user manuals and a listing of vendors and contact information for each manufactured component including flasher electrical components.

The engineer may allow alternates equal to specified manufactured components. The engineer may require plan detail modifications to accommodate alternates. The engineer may accept alternate arms or mounting adaptors only if the contractor can demonstrate that the department can easily remove and replace the arms.

### B.2 Components

Furnish type 5 steel poles designed to carry twin 15-foot luminaire arms and conforming to standard spec 657 and with dimensions for acceptable installation of the ramp gate hardware as shown on the detail. Ensure a contiguous pole by eliminating the hand hole near base of pole, thus allowing uninhibited mounting of the gate pivot assembly.

Furnish galvanized steel nuts and bolts conforming to ASTM A307 except where designated as high strength (HS), conform to ASTM F3125. For the ramp closure gate locking mechanism, furnish a 3/4-inch handle nut.

Furnish grade A36 steel for the gate supports, gate pivot assembly, and associated hardware galvanized after fabrication by either a mechanical or hot-dip process. Grind welded connections, rough edges, and burrs smooth before galvanizing to ensure a finished appearance. Ensure that the galvanized coating conforms to ASTM A 153.

Provide aluminum/fiberglass gate arms of the nominal length the bid item indicates and conforming to plan dimensions. Cover gate arms on two sides with alternating red and white shop-applied type H reflective from the department's approved products list. Also provide a shear pin base that is the manufacturer’s "permanent pivot" style. Obtain components from:

B&B Roadway
15191 Hwy 243
Russellville, AL 35654
Tel: (888) 560-2060
Gate arm: Model MU605

Furnish a worm gear winch with a single line vertical lift capacity of 2000 lbs. Ensure that the winch has hardened steel gears, a handgrip, permanently lubricated bearings, a reinforced arc-welded reel assembly, and mounting plate. Ensure that the winch can be mounted to the winch mount plate shown on the construction details and the handgrip can be operated without conflict with the pole or ramp gate assembly. Furnish a 2-inch outdoor rated, rot resistant polyester strap for the connection between the worm gear winch and the gate arm pivot assembly.

### C Construction

Provide ramp closure gate at the locations the plans show. Apply marine grade anti seize compound compound to all bolt threads and to the interface between the aluminum base and steel pole. The engineer may direct adjustment of the gate arm assembly to ensure the correct vertical and angular orientation of the completed closure gate.

Install structure identification plaques in the location the plan details show.

### D Measurement

The department will measure the Ramp Closure Gates bid items as each individual installation, 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 |
|---|---|---|
| 662.1040.S | Ramp Closure Gates 40-FT | EACH |

Payment for the Ramp Closure Gate bid items is full compensation for providing ramp closure gates including support poles; for gate arm assemblies including guides, collars, and gate arms; and for structure identification plaques.

stp-662-005 (20191121)

## 49. Ramp Closure Barricade Rack 2-Unit, Item 662.6020.S.

### A Description

This special provision describes providing storage racks for barricades used to temporarily close off entrance ramps to divided highways.

### B Materials

Furnish wooden posts conforming to standard spec 634.2.1.

Fabricate tubular steel components using structural quality 12-gauge strip steel conforming to ASTM designation A1011, grade 50 with an average minimum yield strength, after cold-forming, of 55,000 psi. The contractor may use perforated tubing.

Hot dip galvanize each tube according to ASTM A653 grade 90. Treat corner welds and cut ends with cold-galvanized organic zinc paint as manufacturer recommends.

Furnish galvanized bolts, nuts, and washers zinc-coated according to ASTM A153.

### C Construction

Install wood posts conforming to standard spec 634.3.1 and the plan details. Fabricate and install tubular steel components as the plans show.

### D Measurement

The department will measure the Ramp Closure Barricade Rack bid items as each individual barricade rack, 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 |
|---|---|---|
| 662.6020.S | Ramp Closure Barricade Rack 2-Unit | EACH |

Payment is full compensation for providing barricade racks; for wood posts; and for galvanized tubular steel components and hardware.

stp-662-015 (20130615)

## 50. 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 |
|---|
| 6-Count Fiber Optic Switch |
| Ethernet Switch |
| CCTV Camera |
| CCTV Camera Pole |

Pick-up small department-furnished equipment, such as communications devices, cameras, and controllers, from the department's Statewide Traffic Operations Center (STOC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the department's STOC at (414) 227-2166 to coordinate pick-up of equipment.

Large department-furnished equipment, such as camera poles will be delivered by the supplier to a contractor-controlled site within Milwaukee or Waukesha County. Delivery will not necessarily be in a "just in time" manner. Store the equipment until field installation. Provide location details and a contact for delivery coordination upon receiving the contract's Notice to Proceed.

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 (20150630)

## 51. 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 Statewide Traffic Operations Center (STOC). 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 STOC 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 Statewide Traffic Operations Center 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 (20100709)

## 52. Removing 50-Foot Camera Pole, Item 677.9051.S.

### A Description

This special provision describes removing existing camera poles.

### B (Vacant)

### C Construction

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; and transportation.

stp-677-901 (20100630)

## 53. Survey Project 1060-10-72, Item SPV.0060.0001.

### 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
- curb and gutter
- sidewalk
- curb ramps
- pipe culverts
- drainage structures
- structure layout
- bridges
- 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
- traffic signals
- ITS
- FTMS
- utilities
- conduit
- water main
- sanitary sewer
- traffic control items
- fencing

**B (Vacant)**

**C Construction**

*Supplement standard spec 650.3.1 with the following:*

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 & 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.
6. Sanitary sewer construction or other gravity–based drainage system, including structure centers, offsets, access openings, rim and invert elevations.

*Replace standard spec 650.3.1.1(2) 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 650.3.1.2.3.1 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 as paragraph two:*

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 650.3.16 and 650.3.17:*

**650.3.15 Water Main**

Record all elevation data for the casing, grade breaks, water main pipe, bends, fittings, and all information necessary to accurately record the construction document. Submit a hard copy to the engineer within 24 hours or as requested by the engineer.

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate all pipe, valves and bends to within 0.10 feet horizontal and establish the elevations to within 0.10 feet vertical.

Set construction stakes at all water main valves, fittings and bends and at maximum interval of 50 feet for water main piping.

Provide the as-built xyz coordinates and elevations, in the project horizontal and vertical datum, of all bends, fittings, valves and tie in locations for the as-built plan. Also provide the locations of the casing ends, the elevation of the top of casing.

**650.3.16 Sanitary Sewer**

Record all elevation data for pipe inverts, outside drops, bends, fittings, casings and other information necessary to accurately record the construction document. Submit a hard copy to the engineer within 24 hours or as requested by the engineer.

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate all pipe inverts, drops to within 0.02 feet horizontally and to within 0.01 feet vertically. Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate all pipe inverts, drops to within 0.02 feet horizontally and to within 0.01 feet vertically.

Provide the as-built xyz coordinates and elevations, in the project horizontal and vertical datum, of all tie in locations for the as-built plan. Also provide the locations of the casing ends, the elevation of the top of casing and the size and material of all pipes.

**D Measurement**

*Replace standard spec 650.4 with the following:*

(1) The department will measure Survey Project 1060-10-72 as a separate single lump sum 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.0060.0001 | Survey Project 1060-10-72 | 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.

## 54. Reconnect Storm Sewer Lateral, Item SPV.0060.0002.

**A Description**

This special provision describes reconnecting existing storm sewer laterals to new structures or new pipe.

**B (Vacant)**

**C Construction**

Identify all laterals in existing structures or pipes before removal of that structure or pipe. Remove existing lateral pipes to the next engineer accepted joint and replace in-kind with equivalent modern materials such as PVC or concrete. Verify that positive drainage is achieved when connecting lateral. Salvage any structurally sound pipe that was removed if prior approval is granted by the engineer. Connect the existing pipes to the new pipes with the appropriate coupling, concrete collar or by means approved by the engineer. Use concrete masonry for concrete collar conforming to standard spec 501.

### D Measurement

The department will measure Reconnect Storm Sewer Lateral by each lateral, connected and approved in the field.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.0002 | Reconnect Storm Sewer Lateral | EACH |

Payment is full compensation for performing all work; removing, providing all materials, coring, couplings, concrete collars, and pipe. Any additional pipe or materials required to reconnect the storm sewer laterals shall be considered incidental to this bid item.

sef-501-005 (20170323)

## 55. Inlet 5-Ft Diameter, Item SPV.0060.0003; Inlet Median 3 Grate Modified, Item SPV.0060.0004.

### A Description

This special provision describes providing an inlet according to section 611 of the standard specs and as detailed in the plans.

### B Materials

Furnish concrete inlets according to standard spec 611.2.

Concrete shall have a compressive strength (f'c) of 5,000 psi

Reinforcing steel shall have a yield strength of 60ksi.

Reinforcing steel shall be epoxy coated.

### C Construction

Construct concrete inlets according to standard spec 611.3, as shown in the construction details section of the plan, and as shown in the standard detail drawing "Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT and 10-FT Diameter."

### D Measurement

The department will measure Inlet 5-Ft Diameter and Inlet Median 3 Grate Modified by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.0003 | Inlet 5-Ft Diameter | EACH |
| SPV.0060.0004 | Inlet Median 3 Grate Modified | EACH |

Payment shall be according to standard spec 611.5.

## 56. Storm Sewer Chamber, Item SPV.0060.0005.

### A Description

This special provision describes providing a concrete storm sewer chamber according to standard spec 611 and as detailed in the plans. The chamber shall be precast off site or precast on the project site in a location where it can be moved into the location shown on the plans.

### B Materials

Furnish concrete, reinforcement, and trench backfill according to standard spec 611.2.

**C Construction**

Construct concrete chambers according to standard spec 611.3 and a shown in the construction details.

Contractor to design structure to determine wall thickness, concrete cover thickness, floor thickness, and reinforcement according to ASTM C913 and the construction detail in the plans. Design loads shall be according to ASTM C890. Provide the engineer a shop drawings and structural calculations showing the design for the structure prior to constructing the structure.

Structure may be precast off site or constructed on site. If chamber is constructed on site, it shall be constructed away from the location shown on the plan so that the existing manhole can remain operational until the chamber is ready for installation.

Remove the existing manhole and install the bottom and walls of the new chamber in one working day. The flat top slab may be installed at a later date. Bypass pump all water flowing into chamber location while chamber is being installed. Bypass pumping is incidental to installation of the storm sewer chamber. Do not begin removal of the existing structure if precipitation is forecast during the day of chamber installation.

**D Measurement**

The department will measure Storm Sewer Chamber by the individual unit, acceptably completed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.0005 | Storm Sewer Chamber | EACH |

Payment shall be according to standard spec 611.5. Bypass pumping is incidental to Storm Sewer Chamber. Removal of the existing manhole shall be paid for using the item Removing Manholes.

## 57. Utility Line Opening, Item SPV.0060.0006.

**A Description**

This special provision describes excavating to uncover utilities for the purpose of determining elevation and potential conflicts as shown and as directed by the engineer.

**B (Vacant)**

**C Construction**

When directed by the engineer excavate the soil above a utility to determine the exact elevation of the facility prior to excavation work.

Excavate in a manner that will not damage the existing utility and the safety of workers is not compromised.

Survey and document the elevation of the existing utility. Provide all documentation to the engineer.

If conflicts between existing utilities and proposed roadway or sewer construction are identified notify the engineer immediately.

Perform the utility line opening at least 10 calendar days prior roadway or sewer construction work affected by that utility.

Where utilities are within 6 feet of each other at a potential conflict location only one utility line opening shall be performed and only one utility line opening shall be paid for. A single utility line opening shall include a trench up to 10 feet long measured along the trench bottom, and of any depth required to locate the intended utility.

All utility line openings shall be approved by the engineer prior to the work being performed. Notify the engineer at least 3 calendar days prior to performing a utility line opening so that a representative of the engineer can be present at the utility line opening.

**D Measurement**

The department will measure Utility Line Opening by the individual unit, acceptably completed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV. 0060.0006 | Utility Line Opening | EACH |

Payment is full compensation for the excavation required to expose the utility line; for backfilling with trench excavation; for compacting the backfill; for removal of any waste material; and for any other incidentals necessary to complete the project.

Existing pavement, concrete curb and gutter, and sidewalk removals necessary to facilitate utility line openings shall not be considered part of or paid for under Utility Line Openings but shall be measured and paid for using other removal bid items. Replacement pavement, concrete curb and gutter, and sidewalk shall not be considered part of or paid for under Utility Line Opening but shall be measured and paid for using other permanent bid items.

## 58. Section Corner Monuments, Item SPV.0060.0007.

### A Description

Coordinate with Southeastern Wisconsin Regional Planning Commission (SEWRPC) for the perpetuation and replacement of a section corner (Public Land Survey System- PLSS) monument.

### B Materials

SEWRPC will provide a pre-cast concrete monument or brass disk to be used to mark the PLSS corner.

Furnish base aggregate dense materials that conform to standard spec 305. Furnish concrete, asphalt, topsoil or other materials depending on the surface surrounding the corner.

### C Construction

SEWRPC will perpetuate existing section corner monument. The contractor is responsible to coordinate with SEWRPC and the WisDOT Project Manager throughout the perpetuation and replacement process. The contractor will contact the engineer and SEWRPC at (920) 912-1036 at least two weeks before starting construction operations or the preconstruction meeting to allow for section corner monument perpetuation.

Contractor must excavate and completely remove the existing monument. Contractor is responsible for providing a backfilled 3 to 4 foot deep hole where existing monument was removed. Contractor is responsible to coordinate the materials and methodology to complete the construction of the surface surrounding the monument. This may include but is not limited to a 2’ x 2’ “box out” or 24” diameter core hole in concrete, asphalt pavement/paving rings, coring to facilitate poured in place monuments, topsoil, seed and mulching or other materials or methodologies as agreed to by the contractor and SEWPRC.

**Contact Information:**

Attn: Rob Merry
Southeastern Wisconsin Regional Planning Commission
W239 N1812 Rockwood Drive
P.O. Box 1607
Waukesha, WI 53187-1607
Phone (262) 953-4289
Cell (920) 912-1036
Fax (262) 547-1103
rmerry@sewrpc.org

### D Measurement

The department will measure Section Corner Monuments Special by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.0007 | Section Corner Monuments | EACH |

Payment is full compensation for all excavating; removal of existing monument, for placing and compacting backfill material; for disposing of surplus materials; for concrete or asphalt material, finishing of roadway or other surfaces, for all coordination with SEWRPC.

SER-621-001 (20210924)

## 59. Traffic Control Local Lane Closures, Item SPV.0060.0010.

### 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.0060.0010 | 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)

## 60. Traffic Control Close-Open Freeway Entrance Ramp, Item SPV.0060.0011.

### 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. 0060.0011 | Traffic Control Close-Open Freeway Entrance Ramp | EACH |

Payment is full compensation for daily surveillance; preparing and submitting the daily surveillance report with hourly metered tickets; mobilization; sweeping; and disposing of materials. Traffic Control devices will be paid separately.

sef-643-001 (20180627)

## 61. Traffic Control Close-Open Freeway Exit Ramp, Item SPV.0060.0012.

### A Description

This special provision describes closing and re-opening a freeway exit ramp and associated auxiliary lane.

### B (Vacant)

### C Construction

Install or reposition traffic control devices required for closing a freeway exit 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 Exit 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.0060.0012 | Traffic Control Close-Open Freeway Exit Ramp | EACH |

Payment is full compensation for daily surveillance; preparing and submitting the daily surveillance report with hourly metered tickets; mobilization; sweeping; and disposing of materials. Traffic Control devices will be paid separately.

## 62. Bagging Signal Head, Item SPV.0060.0013.

### A Description

This special provision describes temporarily covering traffic signal heads not needed because of traffic staging.

### B Materials

Provide an opaque material capable of preventing drivers from being able to see the traffic signal lights.

Provide any fasteners required to attach the cover to the traffic signal head so that the cover is capable of withstanding inclement weather.

### C Construction

Cover the traffic signal head so the faces are not visible to drivers.

Remove the cover at the completion of the traffic control stage before the traffic lane is opened to traffic.

### D Measurement

The department will measure Bagging Signal Head by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.0013 | Bagging Signal Head | EACH |

Payment is full compensation for providing a traffic signal cover and fasteners, installing the cover and fasteners, maintaining the cover and fasteners, and removing the cover and fasteners.

## 63. Lighting System Integrator, Item SPV.0060.1001.

### A Description

This special provision describes coordinating lighting with various parties; record keeping, and documentation. 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, 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 measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.1001 | Lighting System Integrator | 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.

## 64. Lighting System Survey, Item SPV.0060.1002.

### A Description

This special provision describes performing a lighting system survey as-built for IH 94 East-West Freeway, Moorland Interchange, 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 Waukesha 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 price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.1002 | 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.

## 65. Removing Communications Vault, Item SPV.0060.2000.

### A Description

This special provision describes removing an existing communications vault.

### B Materials

Materials include existing communications vault and restoration materials such as backfill, topsoil, seeding, mulch, and fertilizer according to standard spec 201, 625, 627, 629, and 630.

### C Construction

Disconnect and cap conduit entering the communications vault. Remove and dispose of the communications vault. Backfill with similar material to the material surrounding the removal and restore the disturbed area by placing 4-inches of topsoil, fertilizer, seed, and mulch to areas disturbed by the removal according to standard spec 201, 625, 627, 629, 630, 636, and 640.

The vault lid may be re-used when new communications vaults are being installed with the project and the existing lid is undamaged. The contractor is responsible to determine if the existing lid will fit on the proposed vaults.

### D Measurement

The department will measure Removing Communications Vault by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.2000 | Removing Communications Vault | EACH |

Payment is full compensation for removing and disposing of the communications vault; and for backfill, topsoil, fertilizer, see, and mulch.

## 66. Ground Rod, Item SPV.0060.2001.

### A Description

This special provision describes providing and 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 8-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 6 feet from other ground rods.

### D Measurement

The department will measure Ground Rod by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.2001 | Ground Rod | EACH |

Payment is full compensation for furnishing and installing the ground rod and wire; and for welding and connections at both ends of the ground wire.

## 67. Install Poles Type 9 Special, Item SPV.0060.3000; Install Monotube Arms 45-FT Type 9/10 Special Pole, Item SPV.0060.3001.

### A Description

This special provision describes transporting and 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 monotube luminaire arms.

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.

### D Measurement

The department will measure Install Poles Type 9 Special and Install Monotube Arms 45-Ft Type 9/10 Special Pole by the individual unit, acceptably completed.

### E Payment

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

### 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 Special | EACH |
| SPV.0060.3001 | Install Montube Arms 45-Ft Type 9/10 Special Pole | EACH |

Payment is full compensation for transporting and installing all materials, including all associated hardware, fittings, mounting devices, and attachments necessary to completely install the pole and arms.

## 68. Transport and Install State Furnished Traffic Signal Cabinet CTH O & I-94 WB-NB Off-Ramp, Item SPV.0060.3002.

### 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.

Coordinate directly with the department's traffic signal cabinet vendor {TAPCO at (262) 814-7327 or rickk@tapconet.com / TCC at (651) 439-1737 or mallwood@trafficcontrolcorp} to schedule the cabinet acceptance testing. Coordinate with the department's Electrical Field Unit at (414) 266-1170 to participate in the acceptance testing. The department has final determination of the cabinet acceptance testing date and time.

### D Measurement

The department will measure Transport and Install State Furnished Traffic Signal Cabinet CTH O & I-94 WB-NB Off Ramp by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3002 | Transport and Install State Furnished Traffic Signal Cabinet CTH O & I-94 WB-NB Off-Ramp | 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.

## 69. Transport Traffic Signal & Intersection Lighting Materials CTH O & IH 94 WB-NB Off-Ramp, Item SPV.0060.3003.

### 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 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.

**D Measurement**

The department will measure Transport Traffic Signal & Intersection Lighting Materials CTH O & I-94 WB-NB Off Ramp by the individual unit, acceptably completed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3003 | Transport Traffic Signal & Intersection Lighting Materials CTH O & I-94 WB-NB Off-Ramp | 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.

## 70. Transport & Install State Furnished EVP Detector Heads CTH O & IH 94 WB-NB Off-Ramp, Item SPV.0060.3004.

**A Description**

This special provision describes the transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads with confirmation lights and mounting brackets at CTH O & IH 94 WB to NB Off-Ramp.

**B Materials**

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.

**C Construction**

Install the EVP detector heads and confirmation lights as shown on the plans. The department will determine the exact location to ensure that the installation does not create a sight obstruction. Mount the EVP detector heads, confirmation lights, and wire them per manufacturer instructions. For a cabinet that is not operating the signal, the contractor will terminate the ends and install the discriminators and card rack in the cabinet. If the cabinet is operating the signal, the cabinet wiring will be done by the department

Notify the department's Electrical shop at (414) 266-1170 upon completion of the installation of the Emergency Vehicle Preemption (EVP) Detector Heads and confirmation lights.

**D Measurement**

The department will measure Transport & Install State Furnished EVP Detector Heads CTH O & I-94 WB-NB Off Ramp by the individual unit, acceptably completed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3004 | Transport & Install State Furnished EVP Detector Heads CTH O & I-94 WB-NB Off-Ramp | EACH |

Payment is full compensation for transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads, confirmation lights, and mounting brackets.

## 71. Temporary Emergency Vehicle Preemption (EVP) System CTH O & IH 94 WB-NB Off-Ramp, Item SPV.0060.3005.

### A Description

This special provision describes furnishing, installing, and maintaining an emergency vehicle preemption system at the temporary signalized intersection as shown in the plans.

### B Materials

Furnish an emergency vehicle preemption system compatible with the municipality's systems and users. Contact the appropriate municipality for information to confirm the operational requirements of the temporary emergency vehicle preemption system.

### C Construction

The Temporary EVP System, as shown in the temporary traffic signal plans or as directed by the engineer, shall be complete in place, tested, and in full operation during each stage and sub-stage of construction and after the completion of roadway construction.

Install the EVP system as shown in the plans for each construction stage and according to the manufacturer's recommendations. Detectors may be mounted on the temporary traffic signal span wire or wood poles. Relocate the temporary EVP detectors to a suitable location if construction activities and/or construction staging changes impede the detector operation. Arrange for testing of equipment prior to acceptance of the installation for each construction stage.

All cables associated with the temporary EVP system shall be routed to the cabinet. Each lead shall be appropriately marked as to which EVP channel it is associated.

Periodic adjustment and/or moving of the temporary EVP detectors may be required due to changes in traffic control, staging, or other construction operations.

Ensure that the temporary EVP system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

Remove the temporary EVP system upon project completion.

Provide the engineer records of all EVP settings used during construction.

### D Measurement

The department will measure Temporary Emergency Vehicle Preemption (EVP) System CTH O & I-94 WB-NB Off Ramp by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3005 | Temporary Emergency Vehicle Preemption (EVP) System CTH O & I-94 WB-NB Off-Ramp | EACH |

Payment is full compensation for furnishing and installing all required equipment, materials, and supplies; for maintaining and changing the EVP detectors and confirmation lights to match the plans, traffic control, and construction staging; for relocating the temporary EVP detectors and confirmation lights due to construction activities, if required; for testing the EVP system with confirmation lights for each stage and sub-stage of construction; for periodically cleaning all temporary EVP detectors and confirmation lights; for cleaning up and properly disposing of waste; and incidentals necessary to complete the contract work.

## 72. Abandon Concrete Bases, Item SPV.0060.3006.

### A Description

This special provision describes partially breaking down and removing Type 13 concrete bases and filling area to grade.

### B (Vacant)

**C Construction**

*Append standard spec 204.3.2.1(2) with the following:*

For the Type 13 concrete base shown on the removal plans, break down and remove the concrete base material to a depth of 2 feet below grade. Fill the area to grade with similar material as adjacent to the base (granular backfill, topsoil, seed, etc). Do not remove the full depth concrete base or wingwalls.

**D Measurement**

The department will measure Abandon Concrete Bases by the individual unit, acceptably completed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3006 | Abandon Concrete Bases | EACH |

Payment is full compensation for breaking down, removing, and restoring Type 13 concrete bases as shown on the plans.

## 73. Remove, Salvage & Reinstall EVP Equipment IH 94 WB On Ramp & CTH O, Item SPV.0060.3007.

**A Description**

This special provision describes removing, salvaging, and reinstalling existing emergency vehicle preemption (EVP) equipment from the existing and temporary traffic signals according to the pertinent provisions of standard spec 204, 655, and 658 and as hereinafter provided.

**B (Vacant)**

**C Construction**

The department assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working emergency vehicle preemption equipment to the engineer. Replace any equipment not identified as damaged or not working, prior to removal at no cost to the department.

Notify the department at least five working days prior to the removal of the emergency vehicle preemption equipment.

Remove the emergency vehicle preemption equipment, including, but not limited to: cabling, detector units, discriminator, and detector card. Safety store equipment in an approved storage area undisturbed by construction.

Upon direction from the engineer, reinstall the salvaged equipment on the temporary and proposed traffic signal. Perform all work according to standard spec 658. The emergency vehicle preemption equipment shall be installed and function in the same manner as the existing permanent traffic signal unless noted otherwise on the plans. Additional cabling required for reinstallation will be paid as a separate item.

**D Measurement**

The department will measure Remove, Salvage & Reinstall EVP Equipment IH 94 WB On Ramp & CTH O by the individual unit, acceptably completed.

**E Payment**

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3007 | Remove, Salvage & Reinstall EVP Equipment IH 94 WB On Ramp & CTH O | EACH |

Payment is full compensation for removing, salvaging, transporting, and reinstalling the emergency vehicle preemption equipment (existing to temporary and temporary to permanent).

The pay item includes removal and reinstallation from the existing signal to temporary signal and from the temporary signal to permanent signal as one unit.

## 74. Install Fiber Optic Communications in Cabinet IH 94 WB to NB Off Ramp & CTH O, 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.

Connect the locate wire (paid as a separate bid item) 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 six (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 Remove, Salvage & Reinstall EVP Equipment IH 94 WB On Ramp & CTH O by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.3008 | Install Fiber Optic Communications in Cabinet IH 94 WB to NB Off Ramp & CTH O | EACH |

Payment is full compensation for transporting and installing pre-terminated patch panels or termination panels and fiber optic cable in conduit; furnishing and installing attachment hardware, fiber jumpers, and locate wire.

Removal of the existing equipment from the traffic signal cabinet and installation of the ethernet switch are paid for as separate items.

## 75. Remove, Salvage, and Reinstall Overhead Sign Support S-67-613, Item SPV.0060.4001.

### A Description

This special provision describes removing the existing overhead sign support and signs, salvaging and storing the existing sign support and signs during construction, and reinstallation of the overhead sign support and signs at a time specified in the traffic control plans.

### B Materials

#### B.1 Concrete Bases

Furnish concrete and steel reinforcement for concrete bases according to standard spec 636.2.

#### B.2 Anchor Rods

Provide anchor rods, nuts, and washers according to standard spec 641.2.2.3.

### B.3 AluminumI-Beams

Provide new aluminum I-beams for signs mounted to overhead sign support. The new I-beams are incidental to this bid item.

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.

### B.4 Replacement of Damaged Materials

Replacement of damaged overhead sign support components shall be according to standard spec 641.2.9 and shall be from the same manufacturer as the original overhead sign support manufacturer unless otherwise approved in writing by the engineer. Replacement of damaged signs shall be according to standard spec 637.2.

## C Construction

### C.1 Documentation of Existing Overhead Sign Support

Provide documentation to the engineer of any existing damage to the overhead sign structure or the existing signs prior to removal of the overhead sign support. The contractor shall be responsible for any undocumented damage to the overhead sign support or signs.

### C.2 Removal of Existing Overhead Sign Support and Base

Remove the existing overhead sign support structure and signs without damaging the overhead sign support or signs attached to the overhead sign support. Store the overhead sign support at a location outside the grading limits where it will not be damaged by construction activities. The overhead sign support may be stored as a single assembled unit or may be disassembled while not in use.

Remove the existing concrete bases to at least 2 feet below subgrade according to standard spec 204.

### C.3 Concrete Bases

Construct a new 36-Inch diameter concrete bases according to standard spec 636.3.

Construct the top of footing elevation so that the sign maintains proper vertical clearance to the roadway.

### C.4 Reinstall Overhead Sign Support

Install the existing overhead sign support according to standard spec 641.3. The sign support shall be fully assembled, and signs shall be mounted to the sign support prior to installation of the sign support.

Any overhead sign support components or signs damaged during removal or storage shall be replaced using components from the manufacturer of the original sign support unless approved in writing by the engineer. All new components shall be assembled onto the overhead sign support prior to installation of the sign support.

Field measure and provide documentation to the engineer of the as-built vertical clearance of the sign structure after installation.

## D Measurement

The department will measure Remove, Salvage, and Reinstall Overhead Sign Support S-67-613 by the individual unit, acceptably completed.

## E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.0001 | Remove, Salvage, and Reinstall Overhead Sign Support S-67-613 | EACH |

Payment is full compensation for removing, storing, and reinstalling the overhead sign support and attached signs; for removing the existing concrete bases; for drilling and constructing a new concrete base; and for providing and installing new aluminum I-beams.

Missing components or signs and components or signs damaged by the contractor during construction shall not be eligible for additional payment. Missing components or signs and damaged components or signs shall be replaced to the satisfaction of the department at no additional cost to the department.

## 76. Water Main Offset 12-Inch, Item SPV.0060.5001.

### A Description

Furnish and install a water main offset as shown Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 47, where required to provide proper clearance (18” minimum separation required) between the water main and a storm sewer/catch basin or other structure. Note following modification to File No. 47: use restrained joints instead of rods.

### B Materials

The water main offset shall be constructed of AWWA C900 PVC pipe and ductile iron fittings (polyethylene encased) and restrained joints.

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6$^{th}$ Edition and all amendments.

### C Construction

The contractor shall first excavate to expose the existing water main, determine the depth, and coordinate with the City Engineer to determine if an offset is necessary. Construct the water main offset per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 47. Note following modification to File No. 47: use restrained joints instead of rods.

The contractor shall contact affected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Install water main offsets with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The water main offset shall be insulated according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

The contractor shall connect the new water main offset to the existing water main. This connection shall include, but not be limited to, locating, excavating, draining down, and cutting into the existing pipe. It shall also include the removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection.

All water main offsets shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be connected to the existing tracer wire installed with the in-place water main on either side. This splice shall be made utilizing SnakeBite waterproof connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material for the water main offset installation shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches for the water main offset installation in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with slurry backfill.

Contact the Brookfield Engineering Department to schedule inspection at (262) 787-3919, three calendar days prior to work being performed.

### D Measurement

The department will measure Water Main Offset 12-Inch by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.5001 | Water Main Offset 12-Inch | EACH |

Payment is full compensation for furnishing labor, materials, excavation, necessary removals, bedding, pipe laying, fittings, pipe disinfection, connections to the existing water main, sheathing, shoring, dewatering, backfill to the bottom of storm sewer for which the offset is required, testing, and incidentals necessary to complete work. Insulation will be paid for separately at its respective unit bid price.

## 77. Adjust Sanitary Sewer Manhole, Item SPV.0060.5002.

### A Description

This special provision describes the adjustment of City of Brookfield sanitary sewer manholes from the top of cone to the top of manhole frame and cover. Perform this work according to the pertinent provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, except as herein modified.

### B Materials

Make adjustments using concrete adjusting rings and mortar.

### C Construction

Perform work according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Set manhole frames to finished grade. All work shall be per City of Brookfield Standard Detail Plate No. SAN-1 and Plate No. SAN-2.

A sanitary manhole seal shall be installed upon completion of the work performed.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three calendar days prior to work being performed.

### D Measurement

The department will measure Adjust Sanitary Sewer Manhole by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.5002 | Adjust Sanitary Sewer Manhole | EACH |

Payment is full compensation for adjusting existing manhole frame and casting to finish grade from the top of existing cone to the top of manhole frame and casting. This shall include but not be limited to construction, necessary removals, and excavation, backfilling.

Multiple adjustments required to perform this work or additional adjustments as directed by the engineer shall be considered incidental.

Sanitary manhole seals will be paid separately at their respective unit bid price.

## 78. Sanitary Manhole Seal, Item SPV.0060.5003.

### A Description

This special provision describes the installation of sanitary manhole seals.

### B Materials

Sanitary manhole seals, shall meet the material requirements of section 8.42.3 and the performance requirement of section 8.42.4 of the Standard Specifications for Sewer and Water Construction, 6th Edition and all amendments, except as herein modified.

Sanitary Manhole Seals shall be Adaptor Internal/External seal ring or approved equal according to City of Brookfield Standard Detail Plate No. SAN-1 and Plate No SAN-2.

### C Construction

Use methods that conform with Section 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Install seals according to the manufacturer's recommended installation procedures and per the City of Brookfield Standard Detail Plate No. SAN-1 and Plate No. SAN-2.

Install all sanitary manhole seals after the manholes have been adjusted to proper grade, during placement of base aggregate dense, and prior to the completion of the pavement.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three calendar days prior to work being performed.

### D Measurement

The department will measure Sanitary Manhole Seal by the individual unit, acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.5003 | Sanitary Manhole Seal | EACH |

Payment is full compensation for installing a manhole seal for a sanitary manhole.

## 79. Concrete Curb & Gutter 30-Inch Type A HES, Item SPV.0090.0001.

### A Description

This special provision describes constructing concrete curb & gutter using high early strength concrete (HES) pavement.

### B Materials

Provide high early strength concrete according to standard spec 416.2. Provide a concrete mix that allows concrete to be cured enough for pedestrian traffic by the time that overnight lane closures must be removed.

### C Construction

Construct according to standard spec 601.3.

### D Measurement

The department will measure Concrete Curb & Gutter 30-Inch Type A HES and Concrete Curb Pedestrian HES by the linear foot, acceptably completed measured along the face of curb.

### 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 Curb & Gutter 30-Inch Type A HES | LF |

Payment shall be according to standard spec 601.5.

## 80. Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch, Item SPV.0090.0002.

### A Description

This special provision describes providing and installing horizontal elliptical shaped concrete storm sewer with interior dimensions of 38x60-Inch.

### B Materials

Provide concrete pipe according to standard spec 608.2.

### C Construction

Construct according to standard spec 608.3.

### D Measurement

The department will measure Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch by the linear foot, acceptably completed, measured center of structure to center of structure.

### 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 | Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch | LF |

Payment shall be according to standard spec 608.5.

## 81. Concrete Sidewalk 5-Inch HES, Item SPV.0165.0001; Concrete Safety Island HES, Item SPV.0165.0002.

### A Description

This special provision describes providing and installing concrete sidewalk and concrete safety islands using high early strength concrete.

### B Materials

Provide high early strength concrete according to standard spec 416.2. Provide a concrete mix that allows concrete to be cured enough for pedestrian traffic by the time that overnight lane closures must be removed.

### C Construction

Construct according to standard spec 602.3.

### D Measurement

The department will measure Concrete Sidewalk 5-Inch HES and Concrete Safety Island HES 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.0165.0001 | Concrete Sidewalk 5-Inch HES | SF |
| SPV.0165.0002 | Concrete Safety Island HES | SF |

Payment shall be according to standard spec 602.5.

## 82. Removing Loose Concrete Overhead, Item SPV.0165.4000.

### A Description

This special provision describes removing vertical, horizontal, and overhead concrete that is visually delaminated or deteriorated on structures as shown on the plans or as directed by the engineer and applying a migrating corrosion inhibitor to existing and new areas of exposed steel reinforcing and spalled concrete. This work shall be according to the pertinent parts of standard spec 517 and the details as shown in the plans.

## B Materials

Furnish a migrating corrosion inhibitor for vertical, horizontal, and overhead applications that is according to the pertinent requirements of standard spec 517 containing the following physical properties:

- Color Appearance: clear yellow viscous liquid
- pH: 9.0 - 10.9 (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:

- Organic liquid
- Water-based
- Non-flammable
- Non-vapor barrier
- Non-toxic, oral LD 50 2,000 g/kg maximum, or lower
- Protects both anodic and cathodic areas
- Does not contain calcium nitrite
- Non-polluting after flushing or dilution
- Non-harmful to plant life after flushing or dilution
- Approved for potable water applications by NSF Standard 61
- Certified for potable water applications by Underwriters Laboratories
- Not carcinogenic under Occupational Safety and Health Agency, NTP, or IARC
- Seven-year minimum usage experience as a migrating corrosion inhibitor
- Confirmed effective by ASTM G-109
- Proven effective as reported by the Strategic Highway Research Program funded by the United States of America, Department of Transportation (USDOT), federal government, and state DOT's.

## C Construction

### C.1 Preparation

Remove all deteriorated concrete that is in danger of falling off the structure onto persons, traffic, or areas below the bridge, and as directed by the engineer. Use of power hammers is not allowed. Take necessary precautions while removing deteriorated concrete to preserve all existing reinforcing steel. Saw cutting 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. Implement necessary procedures to prevent debris from falling into the water.

### C.2 Surface Application

Use the corrosion inhibitor for vertical and overhead surface applications. Apply the solution by spray (conventional airless or hand pressure spray equipment), roller, squeegee, or paintbrush. Follow manufacturer's application rate, but at a minimum 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. Do not apply if the ambient temperature near the applied concrete surface is expected to fall below 32° F within 12 hours of application or if precipitation is expected within 8 hours after application.

### D Measurement

The department will measure Removing Loose Concrete Overhead 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 Overhead | SF |

Payment is full compensation for concrete removal and disposal, cleaning and preparation, and for furnishing and applying the product.

# 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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### 416.2.4 Concrete Pavement Repair and Replacement

*Replace the entire text with the following effective with the November 2022 letting:*

(1) Except as specified in 416.3.6 for inlaid rumble strips, use grade C concrete as specified in 501.

(2) The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi.

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### 416.2.5 Special High Early Strength Concrete Pavement Repair and Replacement

#### 416.2.5.1 Composition and Proportioning of Concrete

*Replace paragraph one with the following effective with the November 2022 letting:*

(1) For the concrete mixture, use a minimum of 846 pounds of cementitious material per cubic yard of concrete. The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi. The contractor may add one or a combination of admixtures to the ingredients or to the mixture in order to obtain the required minimum strength and required air content. Do not retemper the concrete mixture.

---

### 455.2.4.3 Emulsified Asphalts

*Replace paragraph one with the following effective with the November 2022 letting:*

(1) Furnish material conforming, before dilution, to the following:

Anionic emulsified asphalts[1] ..... AASHTO M140
Cationic emulsified asphalts[1] ..... AASHTO M208
Polymer-modified cationic emulsified asphalts ..... AASHTO M316

[1] Non-tracking emulsified asphalts shall conform to TABLE 455-1 for the type and grade specified.

**TABLE 455-1 Requirements for Non-Tracking Emulsified Asphalt**

| PRODUCT | ANTT | CNTT |
|---|---|---|
| Saybolt Viscosity at 77°F (25°C), (AASHTO T 59), SFS | 15-100 | 15-100 |
| Paddle Viscosity at 77°F (25°C), (AASHTO T 382), cPs[1] | 30-200 | 30-200 |
| Storage Stability Test, 24 hr, (AASHTO T 59), % | 1 max | 1 max |
| Residue by Distillation, 500 ± 10 °F (260 ± 5 °C), or Residue by Evaporation, 325 ± 5 °F (163 ± 3 °C), (AASHTO T 59), % | 50 min | 50 min |
| Sieve Test, No. 20 (850 µm), (AASHTO T 59), % | 0.3 | 0.3 |
| Penetration at 77°F (25°C), 100 g, 5 sec, (AASHTO T 49), dmm | 10-40 | 10-40 |
| Ash Content, (AASHTO T 111), % | 1 max | 1 max |
| Solubility in Trichlorethylene Test, (AASHTO T 44)[2] | 97.5% min | 97.5% min |

[1] Paddle Viscosity (AASHTO T 382) may be run in lieu of Saybolt Viscosity (AASHTO T 59).

[2] The solubility in Trichlorethylene test (AASHTO T 44) may be run in lieu of Ash Content (AASHTO T 111).

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### 455.2.5 Tack Coat

*Replace paragraph one with the following effective with the November 2022 letting:*

(1) Under the Tack Coat bid item, furnish type SS-1h, CSS-1h, QS-1h, CQS-1h, ANTT, CNTT, or modified emulsified asphalt with an “h” suffix, unless the contract specifies otherwise.

### 710.5.7 Corrective Action

#### 710.5.7.1 Optimized Aggregate Gradations

*Replace paragraph one with the following effective with the November 2022 letting:*

(1) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by less than or equal to 1.0 percent on a single sieve size, notify the other party immediately and do one of the following:

- Perform corrective action documented in the QC plan or as the engineer approves. Continue with the following:
  1. Document and provide corrective action results to the engineer as soon as they are available.
  2. Department will conduct two tests within the next business day after corrective action is complete.

     If blended aggregate gradations are within the tarantula curve limits by the second department test:
     - Continue with concrete production.
     - Include a break in the 4-point running average.
     - For Class I Pavements: The department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
  - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract requires an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit a new optimized aggregate gradation mix design.
  - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract does not require an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit either a new optimized aggregate gradation mix design or a combined aggregate gradation mix design.
- Submit a new optimized aggregate gradation mix design and perform the following:
  1. Restart control charts for the new mix design.
  2. Amend contractor Quality Control Plan

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### 715.5 Payment

*Replace the entire text with the following effective with the November 2022 letting:*

#### 715.5.1 General

(1) The department will pay incentive for concrete strength under the following bid items:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| 715.0502 | Incentive Strength Concrete Structures | DOL |
| 715.0603 | Incentive Strength Concrete Barrier | DOL |
| 715.0715 | Incentive Flexural Strength Concrete Pavement | DOL |
| 715.0720 | Incentive Compressive Strength Concrete Pavement | DOL |

(2) Incentive payment may be more or less than the amount the schedule of items shows.

(3) The department will administer disincentives for strength under the Disincentive Strength Concrete Structures, Disincentive Strength Concrete Barrier, Disincentive Flexural Strength Concrete Pavement, and Disincentive Compressive Strength Concrete Pavement, administrative items.

(4) The department will adjust pay for each lot using PWL of the 28-day sublot average strengths for that lot. The department will measure PWL relative to strength lower specification limits as follows:

- Compressive strength of 3700 psi for pavements.
- Flexural strength of 650 psi for pavements.
- Compressive strength of 4000 psi for structures and barrier.

(5) The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.2.

(6) Submit test results to the department electronically using MRS software. The department will verify contractor data before determining pay adjustments.

(7) All coring and testing costs under 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.

### 715.5.2 Pavements

#### 715.5.2.1 Compressive

(1) The department will adjust pay for each lot using equation "QMP 3.01" as follows:

| Percent within Limits (PWL) | Pay Adjustment (dollars per square yard) |
|---|---|
| >= 95 to 100 | (0.1 x PWL) – 9.5 |
| >= 85 to < 95 | 0 |
| >= 30 to < 85 | (1.5/55 x PWL) – 127.5/55 |
| < 30 | -1.50 |

(2) The department will not pay incentive if the lot standard deviation is greater than 400 psi compressive.

(3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual sublot average strengths. The department will reduce pay for sublots with an average strength below 3700 psi compressive by $1.50 per square yard.

(4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

#### 715.5.2.2 Flexural

(1) The department will adjust pay for each lot using equation "QMP 6.02" as follows:

| Percent within Limits (PWL) | Pay Adjustment (dollars per square yard) |
|---|---|
| >= 95 to 100 | (0.2 x PWL) – 19 |
| >= 85 to < 95 | 0 |
| >= 50 to < 85 | (2.0/35 x PWL) – 170/35 |
| < 50 | -2.00 |

(2) The department will not pay incentive if the lot standard deviation is greater than 60 psi flexural.

(3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual sublot average strengths. The department will reduce pay for sublots with an average strength below 650 psi flexural by $2.00 per square yard.

(4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

### 715.5.3 Structures and Cast-in-Place Barrier

(1) The department will adjust pay for each lot using equation "QMP 2.01" as follows:

| Percent within Limits (PWL) | Pay Adjustment (dollars per square yard) |
|---|---|
| >= 99 to 100 | 10 |
| >= 90 to < 99 | 0 |
| >= 50 to < 90 | (7/8 x PWL) – 78.75 |
| < 50 | -35 |

(2) The department will not pay incentive if the lot standard deviation is greater than 350 psi.

(3) For lots with less than 4 sublots, there is no incentive, but the department will assess a disincentive based on the individual sublot average strengths. The department will reduce pay for sublots with an average strength below 4000 psi by $35 per cubic yard.

# 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

# 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).

# BUY AMERICA PROVISION

Buy America (as documented in M-22-11 from the Office of Management and Budget: https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf) 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 smelting forward in the manufacturing process) 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 OMB M-22-11 and as referenced in CMM 228.5) must comply with Buy America. No exemptions (0.0%) are allowed.

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 exemptions and their associated costs to the certification form.

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0002 | 201.0205<br>Grubbing | 1.000<br>STA | _____.____ | _____.____ |
| 0004 | 201.0220<br>Grubbing | 10.000<br>ID | _____.____ | _____.____ |
| 0006 | 203.0100<br>Removing Small Pipe Culverts | 3.000<br>EACH | _____.____ | _____.____ |
| 0008 | 203.0220<br>Removing Structure (structure) 0001. R-67-158 | 1.000<br>EACH | _____.____ | _____.____ |
| 0010 | 204.0100<br>Removing Concrete Pavement | 2,895.000<br>SY | _____.____ | _____.____ |
| 0012 | 204.0105<br>Removing Concrete Pavement Butt Joints | 100.000<br>SY | _____.____ | _____.____ |
| 0014 | 204.0115<br>Removing Asphaltic Surface Butt Joints | 395.000<br>SY | _____.____ | _____.____ |
| 0016 | 204.0120<br>Removing Asphaltic Surface Milling | 4,720.000<br>SY | _____.____ | _____.____ |
| 0018 | 204.0150<br>Removing Curb & Gutter | 1,645.000<br>LF | _____.____ | _____.____ |
| 0020 | 204.0155<br>Removing Concrete Sidewalk | 80.000<br>SY | _____.____ | _____.____ |
| 0022 | 204.0170<br>Removing Fence | 335.000<br>LF | _____.____ | _____.____ |
| 0024 | 204.0195<br>Removing Concrete Bases | 12.000<br>EACH | _____.____ | _____.____ |
| 0026 | 204.0210<br>Removing Manholes | 3.000<br>EACH | _____.____ | _____.____ |
| 0028 | 204.0220<br>Removing Inlets | 13.000<br>EACH | _____.____ | _____.____ |
| 0030 | 204.0245<br>Removing Storm Sewer (size) 0001. 12-Inch | 114.000<br>LF | _____.____ | _____.____ |
| 0032 | 204.0245<br>Removing Storm Sewer (size) 0002. 15-Inch | 268.000<br>LF | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0034 | 204.0245<br>Removing Storm Sewer (size) 0003. 18-Inch | 234.000<br>LF | _____.____ | _____.____ |
| 0036 | 204.0245<br>Removing Storm Sewer (size) 0004. 24-Inch | 265.000<br>LF | _____.____ | _____.____ |
| 0038 | 204.0245<br>Removing Storm Sewer (size) 0005. 58x36-Inch | 69.000<br>LF | _____.____ | _____.____ |
| 0040 | 204.0246<br>Removing Ancillary Structure (structure) 0001. S-67-227 | 1.000<br>EACH | _____.____ | _____.____ |
| 0042 | 204.0246<br>Removing Ancillary Structure (structure) 0002. S-67-614 | 1.000<br>EACH | _____.____ | _____.____ |
| 0044 | 204.0291.S<br>Abandoning Sewer | 4.000<br>CY | _____.____ | _____.____ |
| 0046 | 204.9001.S<br>Removing Advance Flasher Assemblies Type 1 | 1.000<br>EACH | _____.____ | _____.____ |
| 0048 | 204.9060.S<br>Removing (item description) 0001. Removing Ramp Closure Gate | 1.000<br>EACH | _____.____ | _____.____ |
| 0050 | 204.9060.S<br>Removing (item description) 0002. Removing Storm Sewer Chamber | 1.000<br>EACH | _____.____ | _____.____ |
| 0052 | 204.9060.S<br>Removing (item description) 1001. Removing Lighting Units | 6.000<br>EACH | _____.____ | _____.____ |
| 0054 | 204.9060.S<br>Removing (item description) 1002. Removing Distribution Center | 1.000<br>EACH | _____.____ | _____.____ |
| 0056 | 204.9060.S<br>Removing (item description) 3001. Removing Traffic Signals IH 94 WB on Ramp & CTH O (S Moorland Rd) | 1.000<br>EACH | _____.____ | _____.____ |
| 0058 | 205.0100<br>Excavation Common | 8,757.000<br>CY | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0060 | 210.1500<br>Backfill Structure Type A | 78.000<br>TON | _____.____ | _____.____ |
| 0062 | 213.0100<br>Finishing Roadway (project) 0001. 1060-10-72 | 1.000<br>EACH | _____.____ | _____.____ |
| 0064 | 305.0110<br>Base Aggregate Dense 3/4-Inch | 15.000<br>TON | _____.____ | _____.____ |
| 0066 | 305.0120<br>Base Aggregate Dense 1 1/4-Inch | 3,715.000<br>TON | _____.____ | _____.____ |
| 0068 | 310.0110<br>Base Aggregate Open-Graded | 80.000<br>TON | _____.____ | _____.____ |
| 0070 | 312.0110<br>Select Crushed Material | 6,550.000<br>TON | _____.____ | _____.____ |
| 0072 | 320.0150<br>Concrete Base 8 1/2-Inch | 15.000<br>SY | _____.____ | _____.____ |
| 0074 | 320.0155<br>Concrete Base 9-Inch | 4,935.000<br>SY | _____.____ | _____.____ |
| 0076 | 390.0303<br>Base Patching Concrete | 236.000<br>SY | _____.____ | _____.____ |
| 0078 | 390.0403<br>Base Patching Concrete Shes | 209.000<br>SY | _____.____ | _____.____ |
| 0080 | 416.0170<br>Concrete Driveway 7-Inch | 26.000<br>SY | _____.____ | _____.____ |
| 0082 | 416.0610<br>Drilled Tie Bars | 985.000<br>EACH | _____.____ | _____.____ |
| 0084 | 416.0620<br>Drilled Dowel Bars | 226.000<br>EACH | _____.____ | _____.____ |
| 0086 | 450.4000<br>HMA Cold Weather Paving | 55.000<br>TON | _____.____ | _____.____ |
| 0088 | 455.0605<br>Tack Coat | 1,295.000<br>GAL | _____.____ | _____.____ |
| 0090 | 460.2000<br>Incentive Density HMA Pavement | 1,240.000<br>DOL | 1.00000 | 1,240.00 |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0092 | 460.6223<br>HMA Pavement 3 MT 58-28 S | 65.000<br>TON | _____.____ | _____.____ |
| 0094 | 460.6224<br>HMA Pavement 4 MT 58-28 S | 1,865.000<br>TON | _____.____ | _____.____ |
| 0096 | 465.0105<br>Asphaltic Surface | 35.000<br>TON | _____.____ | _____.____ |
| 0098 | 465.0120<br>Asphaltic Surface Driveways and Field Entrances | 45.000<br>TON | _____.____ | _____.____ |
| 0100 | 509.1500<br>Concrete Surface Repair | 282.000<br>SF | _____.____ | _____.____ |
| 0102 | 521.1221<br>Apron Endwalls for Pipe Arch Steel 21x15-Inch | 2.000<br>EACH | _____.____ | _____.____ |
| 0104 | 521.3721<br>Pipe Arch Corrugated Steel 21x15-Inch | 40.000<br>LF | _____.____ | _____.____ |
| 0106 | 531.2036<br>Drilling Shaft 36-Inch | 10.000<br>LF | _____.____ | _____.____ |
| 0108 | 531.2048<br>Drilling Shaft 48-Inch | 28.000<br>LF | _____.____ | _____.____ |
| 0110 | 531.4050<br>Foundation Camera Pole 50-FT | 1.000<br>EACH | _____.____ | _____.____ |
| 0112 | 531.5340<br>Foundation Single-Shaft Type TC-IV (structure) 0001. S-67-983 | 1.000<br>EACH | _____.____ | _____.____ |
| 0114 | 532.5340<br>Truss Cantilever 2-Chord Type IV (structure) 0001. S-67-983 | 1.000<br>EACH | _____.____ | _____.____ |
| 0116 | 601.0405<br>Concrete Curb & Gutter 18-Inch Type A | 1,575.000<br>LF | _____.____ | _____.____ |
| 0118 | 601.0409<br>Concrete Curb & Gutter 30-Inch Type A | 1,840.000<br>LF | _____.____ | _____.____ |
| 0120 | 601.0411<br>Concrete Curb & Gutter 30-Inch Type D | 95.000<br>LF | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0122 | 601.0555<br>Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A | 435.000<br>LF | _____.____ | _____.____ |
| 0124 | 601.0600<br>Concrete Curb Pedestrian | 33.000<br>LF | _____.____ | _____.____ |
| 0126 | 602.0405<br>Concrete Sidewalk 4-Inch | 9,355.000<br>SF | _____.____ | _____.____ |
| 0128 | 602.0505<br>Curb Ramp Detectable Warning Field Yellow | 62.000<br>SF | _____.____ | _____.____ |
| 0130 | 602.0605<br>Curb Ramp Detectable Warning Field Radial Yellow | 14.000<br>SF | _____.____ | _____.____ |
| 0132 | 603.1142<br>Concrete Barrier Type S42 | 131.000<br>LF | _____.____ | _____.____ |
| 0134 | 603.1456<br>Concrete Barrier Type S56C | 351.000<br>LF | _____.____ | _____.____ |
| 0136 | 603.3559<br>Concrete Barrier Transition Type S42 to S56 | 2.000<br>EACH | _____.____ | _____.____ |
| 0138 | 606.0300<br>Riprap Heavy | 59.000<br>CY | _____.____ | _____.____ |
| 0140 | 608.0412<br>Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch | 227.000<br>LF | _____.____ | _____.____ |
| 0142 | 608.0415<br>Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch | 310.000<br>LF | _____.____ | _____.____ |
| 0144 | 608.0418<br>Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch | 219.000<br>LF | _____.____ | _____.____ |
| 0146 | 608.0421<br>Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch | 256.000<br>LF | _____.____ | _____.____ |
| 0148 | 608.0424<br>Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch | 200.000<br>LF | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0150 | 608.0430<br>Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch | 125.000<br>LF | _____.____ | _____.____ |
| 0152 | 611.0420<br>Reconstructing Manholes | 3.000<br>EACH | _____.____ | _____.____ |
| 0154 | 611.0530<br>Manhole Covers Type J | 12.000<br>EACH | _____.____ | _____.____ |
| 0156 | 611.0606<br>Inlet Covers Type B | 3.000<br>EACH | _____.____ | _____.____ |
| 0158 | 611.0610<br>Inlet Covers Type BW | 8.000<br>EACH | _____.____ | _____.____ |
| 0160 | 611.0624<br>Inlet Covers Type H | 6.000<br>EACH | _____.____ | _____.____ |
| 0162 | 611.0627<br>Inlet Covers Type HM | 4.000<br>EACH | _____.____ | _____.____ |
| 0164 | 611.0642<br>Inlet Covers Type MS | 5.000<br>EACH | _____.____ | _____.____ |
| 0166 | 611.0651<br>Inlet Covers Type S | 1.000<br>EACH | _____.____ | _____.____ |
| 0168 | 611.0666<br>Inlet Covers Type Z | 9.000<br>EACH | _____.____ | _____.____ |
| 0170 | 611.2004<br>Manholes 4-FT Diameter | 5.000<br>EACH | _____.____ | _____.____ |
| 0172 | 611.2005<br>Manholes 5-FT Diameter | 2.000<br>EACH | _____.____ | _____.____ |
| 0174 | 611.2006<br>Manholes 6-FT Diameter | 2.000<br>EACH | _____.____ | _____.____ |
| 0176 | 611.2033<br>Manholes 3x3-FT | 1.000<br>EACH | _____.____ | _____.____ |
| 0178 | 611.3003<br>Inlets 3-FT Diameter | 6.000<br>EACH | _____.____ | _____.____ |
| 0180 | 611.3004<br>Inlets 4-FT Diameter | 14.000<br>EACH | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0182 | 611.3220<br>Inlets 2x2-FT | 2.000<br>EACH | _____.____ | _____.____ |
| 0184 | 611.3225<br>Inlets 2x2.5-FT | 2.000<br>EACH | _____.____ | _____.____ |
| 0186 | 611.3230<br>Inlets 2x3-FT | 5.000<br>EACH | _____.____ | _____.____ |
| 0188 | 611.3901<br>Inlets Median 1 Grate | 2.000<br>EACH | _____.____ | _____.____ |
| 0190 | 611.8115<br>Adjusting Inlet Covers | 1.000<br>EACH | _____.____ | _____.____ |
| 0192 | 612.0106<br>Pipe Underdrain 6-Inch | 920.000<br>LF | _____.____ | _____.____ |
| 0194 | 612.0902.S<br>Insulation Board Polystyrene (inch) 5001. 2-Inch | 16.000<br>SY | _____.____ | _____.____ |
| 0196 | 614.0805<br>Crash Cushions Permanent Low Maintenance | 2.000<br>EACH | _____.____ | _____.____ |
| 0198 | 614.2500<br>MGS Thrie Beam Transition | 40.000<br>LF | _____.____ | _____.____ |
| 0200 | 614.2610<br>MGS Guardrail Terminal EAT | 1.000<br>EACH | _____.____ | _____.____ |
| 0202 | 616.0100<br>Fence Woven Wire (height) 0001. 4-ft | 335.000<br>LF | _____.____ | _____.____ |
| 0204 | 616.0700.S<br>Fence Safety | 113.000<br>LF | _____.____ | _____.____ |
| 0206 | 618.0100<br>Maintenance And Repair of Haul Roads (project) 0001. 1060-10-72 | 1.000<br>EACH | _____.____ | _____.____ |
| 0208 | 619.1000<br>Mobilization | 1.000<br>EACH | _____.____ | _____.____ |
| 0210 | 620.0300<br>Concrete Median Sloped Nose | 60.000<br>SF | _____.____ | _____.____ |
| 0212 | 623.0200<br>Dust Control Surface Treatment | 2,500.000<br>SY | _____.____ | _____.____ |

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**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

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|---|---|---|---|---|
| 0214 | 624.0100<br>Water | 192.000<br>MGAL | _____.____ | _____.____ |
| 0216 | 625.0100<br>Topsoil | 1,487.000<br>SY | _____.____ | _____.____ |
| 0218 | 625.0500<br>Salvaged Topsoil | 1,618.000<br>SY | _____.____ | _____.____ |
| 0220 | 627.0200<br>Mulching | 4,440.000<br>SY | _____.____ | _____.____ |
| 0222 | 628.1104<br>Erosion Bales | 50.000<br>EACH | _____.____ | _____.____ |
| 0224 | 628.1504<br>Silt Fence | 1,290.000<br>LF | _____.____ | _____.____ |
| 0226 | 628.1520<br>Silt Fence Maintenance | 646.000<br>LF | _____.____ | _____.____ |
| 0228 | 628.1905<br>Mobilizations Erosion Control | 6.000<br>EACH | _____.____ | _____.____ |
| 0230 | 628.1910<br>Mobilizations Emergency Erosion Control | 4.000<br>EACH | _____.____ | _____.____ |
| 0232 | 628.2008<br>Erosion Mat Urban Class I Type B | 1,630.000<br>SY | _____.____ | _____.____ |
| 0234 | 628.6510<br>Soil Stabilizer Type B | 2.000<br>ACRE | _____.____ | _____.____ |
| 0236 | 628.7005<br>Inlet Protection Type A | 47.000<br>EACH | _____.____ | _____.____ |
| 0238 | 628.7010<br>Inlet Protection Type B | 11.000<br>EACH | _____.____ | _____.____ |
| 0240 | 628.7020<br>Inlet Protection Type D | 70.000<br>EACH | _____.____ | _____.____ |
| 0242 | 628.7504<br>Temporary Ditch Checks | 207.000<br>LF | _____.____ | _____.____ |
| 0244 | 628.7555<br>Culvert Pipe Checks | 10.000<br>EACH | _____.____ | _____.____ |
| 0246 | 628.7560<br>Tracking Pads | 4.000<br>EACH | _____.____ | _____.____ |

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**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

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|---|---|---|---|---|
| 0248 | 628.7570<br>Rock Bags | 50.000<br>EACH | _____.____ | _____.____ |
| 0250 | 629.0210<br>Fertilizer Type B | 10.000<br>CWT | _____.____ | _____.____ |
| 0252 | 630.0130<br>Seeding Mixture No. 30 | 74.000<br>LB | _____.____ | _____.____ |
| 0254 | 630.0200<br>Seeding Temporary | 23.000<br>LB | _____.____ | _____.____ |
| 0256 | 630.0300<br>Seeding Borrow Pit | 60.000<br>LB | _____.____ | _____.____ |
| 0258 | 630.0500<br>Seed Water | 159.000<br>MGAL | _____.____ | _____.____ |
| 0260 | 631.0300<br>Sod Water | 39.000<br>MGAL | _____.____ | _____.____ |
| 0262 | 631.1000<br>Sod Lawn | 1,495.000<br>SY | _____.____ | _____.____ |
| 0264 | 634.0618<br>Posts Wood 4x6-Inch X 18-FT | 30.000<br>EACH | _____.____ | _____.____ |
| 0266 | 637.1220<br>Signs Type I Reflective SH | 102.000<br>SF | _____.____ | _____.____ |
| 0268 | 637.2210<br>Signs Type II Reflective H | 233.940<br>SF | _____.____ | _____.____ |
| 0270 | 637.2215<br>Signs Type II Reflective H Folding | 29.840<br>SF | _____.____ | _____.____ |
| 0272 | 637.2230<br>Signs Type II Reflective F | 63.000<br>SF | _____.____ | _____.____ |
| 0274 | 638.2101<br>Moving Signs Type I | 1.000<br>EACH | _____.____ | _____.____ |
| 0276 | 638.2102<br>Moving Signs Type II | 1.000<br>EACH | _____.____ | _____.____ |
| 0278 | 638.2601<br>Removing Signs Type I | 1.000<br>EACH | _____.____ | _____.____ |
| 0280 | 638.2602<br>Removing Signs Type II | 27.000<br>EACH | _____.____ | _____.____ |

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**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0282 | 638.3000<br>Removing Small Sign Supports | 25.000<br>EACH | _____.____ | _____.____ |
| 0284 | 642.5201<br>Field Office Type C | 1.000<br>EACH | _____.____ | _____.____ |
| 0286 | 643.0300<br>Traffic Control Drums | 18,258.000<br>DAY | _____.____ | _____.____ |
| 0288 | 643.0420<br>Traffic Control Barricades Type III | 3,633.000<br>DAY | _____.____ | _____.____ |
| 0290 | 643.0705<br>Traffic Control Warning Lights Type A | 7,266.000<br>DAY | _____.____ | _____.____ |
| 0292 | 643.0715<br>Traffic Control Warning Lights Type C | 3,495.000<br>DAY | _____.____ | _____.____ |
| 0294 | 643.0800<br>Traffic Control Arrow Boards | 439.000<br>DAY | _____.____ | _____.____ |
| 0296 | 643.0900<br>Traffic Control Signs | 26,694.000<br>DAY | _____.____ | _____.____ |
| 0298 | 643.0910<br>Traffic Control Covering Signs Type I | 3.000<br>EACH | _____.____ | _____.____ |
| 0300 | 643.0920<br>Traffic Control Covering Signs Type II | 1.000<br>EACH | _____.____ | _____.____ |
| 0302 | 643.1000<br>Traffic Control Signs Fixed Message | 302.000<br>SF | _____.____ | _____.____ |
| 0304 | 643.1050<br>Traffic Control Signs PCMS | 237.000<br>DAY | _____.____ | _____.____ |
| 0306 | 643.3150<br>Temporary Marking Line Removable Tape 4-Inch | 5,140.000<br>LF | _____.____ | _____.____ |
| 0308 | 643.3250<br>Temporary Marking Line Removable Tape 8-Inch | 202.000<br>LF | _____.____ | _____.____ |
| 0310 | 643.3850<br>Temporary Marking Stop Line Removable Tape 18-Inch | 24.000<br>LF | _____.____ | _____.____ |
| 0312 | 643.3970<br>Temporary Marking Removable Mask Out Tape 10-Inch | 170.000<br>LF | _____.____ | _____.____ |

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**SECTION:** 0001 Contract Items

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|---|---|---|---|---|
| 0314 | 643.5000<br>Traffic Control | 1.000<br>EACH | _____.____ | _____.____ |
| 0316 | 644.1440<br>Temporary Pedestrian Surface Matting | 62.000<br>SF | _____.____ | _____.____ |
| 0318 | 644.1601<br>Temporary Pedestrian Curb Ramp | 20.000<br>DAY | _____.____ | _____.____ |
| 0320 | 644.1605<br>Temporary Pedestrian Detectable Warning Field | 20.000<br>SF | _____.____ | _____.____ |
| 0322 | 644.1810<br>Temporary Pedestrian Barricade | 573.000<br>LF | _____.____ | _____.____ |
| 0324 | 645.0111<br>Geotextile Type DF Schedule A | 525.000<br>SY | _____.____ | _____.____ |
| 0326 | 645.0120<br>Geotextile Type HR | 116.000<br>SY | _____.____ | _____.____ |
| 0328 | 645.0220<br>Geogrid Type SR | 7,025.000<br>SY | _____.____ | _____.____ |
| 0330 | 646.1020<br>Marking Line Epoxy 4-Inch | 4,905.000<br>LF | _____.____ | _____.____ |
| 0332 | 646.1545<br>Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch | 952.000<br>LF | _____.____ | _____.____ |
| 0334 | 646.3545<br>Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch | 2,308.000<br>LF | _____.____ | _____.____ |
| 0336 | 646.5020<br>Marking Arrow Epoxy | 11.000<br>EACH | _____.____ | _____.____ |
| 0338 | 646.5120<br>Marking Word Epoxy | 5.000<br>EACH | _____.____ | _____.____ |
| 0340 | 646.6120<br>Marking Stop Line Epoxy 18-Inch | 209.000<br>LF | _____.____ | _____.____ |
| 0342 | 646.6220<br>Marking Yield Line Epoxy 18-Inch | 19.000<br>EACH | _____.____ | _____.____ |
| 0344 | 646.6464<br>Cold Weather Marking Epoxy 4-Inch | 591.000<br>LF | _____.____ | _____.____ |

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**SECTION:** 0001 Contract Items

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|---|---|---|---|---|
| 0346 | 646.6468<br>Cold Weather Marking Epoxy 8-Inch | 234.000<br>LF | _____.____ | _____.____ |
| 0348 | 646.7120<br>Marking Diagonal Epoxy 12-Inch | 33.000<br>LF | _____.____ | _____.____ |
| 0350 | 646.7420<br>Marking Crosswalk Epoxy Transverse Line 6-Inch | 211.000<br>LF | _____.____ | _____.____ |
| 0352 | 646.8120<br>Marking Curb Epoxy | 20.000<br>LF | _____.____ | _____.____ |
| 0354 | 646.8220<br>Marking Island Nose Epoxy | 2.000<br>EACH | _____.____ | _____.____ |
| 0356 | 646.9000<br>Marking Removal Line 4-Inch | 788.000<br>LF | _____.____ | _____.____ |
| 0358 | 646.9010<br>Marking Removal Line Water Blasting 4-Inch | 279.000<br>LF | _____.____ | _____.____ |
| 0360 | 646.9100<br>Marking Removal Line 8-Inch | 188.000<br>LF | _____.____ | _____.____ |
| 0362 | 646.9110<br>Marking Removal Line Water Blasting 8-Inch | 513.000<br>LF | _____.____ | _____.____ |
| 0364 | 646.9200<br>Marking Removal Line Wide | 481.000<br>LF | _____.____ | _____.____ |
| 0366 | 646.9310<br>Marking Removal Special Marking Water Blasting | 5.000<br>EACH | _____.____ | _____.____ |
| 0368 | 652.0225<br>Conduit Rigid Nonmetallic Schedule 40 2-Inch | 3,813.000<br>LF | _____.____ | _____.____ |
| 0370 | 652.0235<br>Conduit Rigid Nonmetallic Schedule 40 3-Inch | 1,146.000<br>LF | _____.____ | _____.____ |
| 0372 | 652.0605<br>Conduit Special 2-Inch | 224.000<br>LF | _____.____ | _____.____ |
| 0374 | 652.0700.S<br>Install Conduit into Existing Item | 6.000<br>EACH | _____.____ | _____.____ |

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**SECTION:** 0001 Contract Items

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|---|---|---|---|---|
| 0376 | 652.0800<br>Conduit Loop Detector | 1,976.000<br>LF | _____.____ | _____.____ |
| 0378 | 653.0135<br>Pull Boxes Steel 24x36-Inch | 5.000<br>EACH | _____.____ | _____.____ |
| 0380 | 653.0140<br>Pull Boxes Steel 24x42-Inch | 16.000<br>EACH | _____.____ | _____.____ |
| 0382 | 653.0222<br>Junction Boxes 18x12x6-Inch | 2.000<br>EACH | _____.____ | _____.____ |
| 0384 | 653.0900<br>Adjusting Pull Boxes | 2.000<br>EACH | _____.____ | _____.____ |
| 0386 | 653.0905<br>Removing Pull Boxes | 8.000<br>EACH | _____.____ | _____.____ |
| 0388 | 654.0101<br>Concrete Bases Type 1 | 6.000<br>EACH | _____.____ | _____.____ |
| 0390 | 654.0102<br>Concrete Bases Type 2 | 2.000<br>EACH | _____.____ | _____.____ |
| 0392 | 654.0105<br>Concrete Bases Type 5 | 8.000<br>EACH | _____.____ | _____.____ |
| 0394 | 654.0120<br>Concrete Bases Type 10-Special | 1.000<br>EACH | _____.____ | _____.____ |
| 0396 | 654.0217<br>Concrete Control Cabinet Bases Type 9 Special | 1.000<br>EACH | _____.____ | _____.____ |
| 0398 | 654.0230<br>Concrete Control Cabinet Bases Type L30 | 1.000<br>EACH | _____.____ | _____.____ |
| 0400 | 655.0230<br>Cable Traffic Signal 5-14 AWG | 473.000<br>LF | _____.____ | _____.____ |
| 0402 | 655.0240<br>Cable Traffic Signal 7-14 AWG | 1,751.000<br>LF | _____.____ | _____.____ |
| 0404 | 655.0320<br>Cable Type UF 2-10 AWG Grounded | 1,511.000<br>LF | _____.____ | _____.____ |
| 0406 | 655.0510<br>Electrical Wire Traffic Signals 12 AWG | 614.000<br>LF | _____.____ | _____.____ |

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**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

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|---|---|---|---|---|
| 0408 | 655.0515<br>Electrical Wire Traffic Signals 10 AWG | 3,697.000<br>LF | _____.____ | _____.____ |
| 0410 | 655.0610<br>Electrical Wire Lighting 12 AWG | 1,337.000<br>LF | _____.____ | _____.____ |
| 0412 | 655.0615<br>Electrical Wire Lighting 10 AWG | 550.000<br>LF | _____.____ | _____.____ |
| 0414 | 655.0620<br>Electrical Wire Lighting 8 AWG | 8,145.000<br>LF | _____.____ | _____.____ |
| 0416 | 655.0640<br>Electrical Wire Lighting 1 AWG | 18.000<br>LF | _____.____ | _____.____ |
| 0418 | 655.0700<br>Loop Detector Lead In Cable | 9,143.000<br>LF | _____.____ | _____.____ |
| 0420 | 655.0800<br>Loop Detector Wire | 5,368.000<br>LF | _____.____ | _____.____ |
| 0422 | 655.0900<br>Traffic Signal EVP Detector Cable | 599.000<br>LF | _____.____ | _____.____ |
| 0424 | 656.0201<br>Electrical Service Meter Breaker Pedestal (location) 3001. CTH O & IH 94 WB to NB Off Ramp | 1.000<br>EACH | _____.____ | _____.____ |
| 0426 | 656.0401<br>Electrical Service Main Lugs Only Meter Pedestal (location) 1000. H-67-LD | 1.000<br>EACH | _____.____ | _____.____ |
| 0428 | 657.0100<br>Pedestal Bases | 6.000<br>EACH | _____.____ | _____.____ |
| 0430 | 657.0255<br>Transformer Bases Breakaway 11 1/2-Inch Bolt Circle | 9.000<br>EACH | _____.____ | _____.____ |
| 0432 | 657.0305<br>Poles Type 2 | 1.000<br>EACH | _____.____ | _____.____ |
| 0434 | 657.0310<br>Poles Type 3 | 1.000<br>EACH | _____.____ | _____.____ |
| 0436 | 657.0322<br>Poles Type 5-Aluminum | 7.000<br>EACH | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0438 | 657.0420<br>Traffic Signal Standards Aluminum 13-FT | 5.000<br>EACH | _____.____ | _____.____ |
| 0440 | 657.0430<br>Traffic Signal Standards Aluminum 10-FT | 1.000<br>EACH | _____.____ | _____.____ |
| 0442 | 657.0609<br>Luminaire Arms Single Member 4-Inch Clamp 6-FT | 1.000<br>EACH | _____.____ | _____.____ |
| 0444 | 657.0610<br>Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT | 12.000<br>EACH | _____.____ | _____.____ |
| 0446 | 658.0173<br>Traffic Signal Face 3S 12-Inch | 10.000<br>EACH | _____.____ | _____.____ |
| 0448 | 658.0416<br>Pedestrian Signal Face 16-Inch | 1.000<br>EACH | _____.____ | _____.____ |
| 0450 | 658.0500<br>Pedestrian Push Buttons | 1.000<br>EACH | _____.____ | _____.____ |
| 0452 | 658.5070<br>Signal Mounting Hardware (location) 3001. CTH O & IH 94 WB to NB Off Ramp | 1.000<br>EACH | _____.____ | _____.____ |
| 0454 | 658.5070<br>Signal Mounting Hardware (location) 3002. IH 94 WB On Ramp & CTH O | 1.000<br>EACH | _____.____ | _____.____ |
| 0456 | 659.1125<br>Luminaires Utility LED C | 13.000<br>EACH | _____.____ | _____.____ |
| 0458 | 659.1215<br>Luminaires Underdeck LED C | 2.000<br>EACH | _____.____ | _____.____ |
| 0460 | 659.2230<br>Lighting Control Cabinets 240/480 30-Inch | 1.000<br>EACH | _____.____ | _____.____ |
| 0462 | 659.5000.S<br>Lamp, Ballast, LED, Switch Disposal by Contractor | 13.000<br>EACH | _____.____ | _____.____ |
| 0464 | 661.0201<br>Temporary Traffic Signals for Intersections (location) 3001. Temp Traffic Signals For Intersections CTH O & IH 94 WB to NB Off Ramp | 1.000<br>EACH | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0466 | 661.0300<br>Generators | 1.000<br>DAY | _____.____ | _____.____ |
| 0468 | 662.1040.S<br>Ramp Closure Gates 40-FT | 1.000<br>EACH | _____.____ | _____.____ |
| 0470 | 662.6020.S<br>Ramp Closure Barricade Rack 2-Unit | 1.000<br>EACH | _____.____ | _____.____ |
| 0472 | 670.0101<br>Field System Integrator | 2.000<br>EACH | _____.____ | _____.____ |
| 0474 | 670.0201<br>ITS Documentation | 2.000<br>EACH | _____.____ | _____.____ |
| 0476 | 671.0142<br>Conduit HDPE 4-Duct 2-Inch | 850.000<br>LF | _____.____ | _____.____ |
| 0478 | 671.0222<br>Conduit HDPE Directional Bore 2-Duct 2-Inch | 70.000<br>LF | _____.____ | _____.____ |
| 0480 | 673.0105<br>Communication Vault Type 1 | 2.000<br>EACH | _____.____ | _____.____ |
| 0482 | 674.0300<br>Remove Cable | 1,740.000<br>LF | _____.____ | _____.____ |
| 0484 | 674.0400<br>Reinstall Cable | 1,525.000<br>LF | _____.____ | _____.____ |
| 0486 | 677.0150<br>Install Camera Pole 50-FT | 1.000<br>EACH | _____.____ | _____.____ |
| 0488 | 677.0200<br>Install Camera Assembly | 1.000<br>EACH | _____.____ | _____.____ |
| 0490 | 677.9051.S<br>Removing 50-FT Camera Pole | 1.000<br>EACH | _____.____ | _____.____ |
| 0492 | 678.0006<br>Install Fiber Optic Cable Outdoor Plant 6-CT | 800.000<br>LF | _____.____ | _____.____ |
| 0494 | 678.0300<br>Fiber Optic Splice | 14.000<br>EACH | _____.____ | _____.____ |
| 0496 | 678.0400<br>Fiber Optic Termination | 234.000<br>EACH | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0498 | 678.0501<br>Communication System Testing | 2.000<br>EACH | _____.____ | _____.____ |
| 0500 | 678.0600<br>Install Ethernet Switches | 2.000<br>EACH | _____.____ | _____.____ |
| 0502 | 690.0150<br>Sawing Asphalt | 249.000<br>LF | _____.____ | _____.____ |
| 0504 | 690.0250<br>Sawing Concrete | 3,168.000<br>LF | _____.____ | _____.____ |
| 0506 | 715.0603<br>Incentive Strength Concrete Barrier | 265.000<br>DOL | 1.00000 | 265.00 |
| 0508 | SPV.0060<br>Special 0001. Survey Project 1060-10-72 | 1.000<br>EACH | _____.____ | _____.____ |
| 0510 | SPV.0060<br>Special 0002. Reconnect Storm Sewer Lateral | 17.000<br>EACH | _____.____ | _____.____ |
| 0512 | SPV.0060<br>Special 0003. Inlet 5-ft Diameter | 2.000<br>EACH | _____.____ | _____.____ |
| 0514 | SPV.0060<br>Special 0004. Inlet Median 3 Grate Modified | 1.000<br>EACH | _____.____ | _____.____ |
| 0516 | SPV.0060<br>Special 0005. Storm Sewer Chamber | 1.000<br>EACH | _____.____ | _____.____ |
| 0518 | SPV.0060<br>Special 0006. Utility Line Opening | 15.000<br>EACH | _____.____ | _____.____ |
| 0520 | SPV.0060<br>Special 0007. Section Corner Monuments | 1.000<br>EACH | _____.____ | _____.____ |
| 0522 | SPV.0060<br>Special 0010. Traffic Control Local Lane Closure | 45.000<br>EACH | _____.____ | _____.____ |
| 0524 | SPV.0060<br>Special 0011. Traffic Control Close-Open Freeway Entrance Ramp | 10.000<br>EACH | _____.____ | _____.____ |
| 0526 | SPV.0060<br>Special 0012. Traffic Control Close-Open Freeway Exit Ramp | 10.000<br>EACH | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0528 | SPV.0060<br>Special 0013. Bagging Signal Head | 2.000<br>EACH | _____.____ | _____.____ |
| 0530 | SPV.0060<br>Special 1001. Lighting System Integrator | 1.000<br>EACH | _____.____ | _____.____ |
| 0532 | SPV.0060<br>Special 1002. Lighting System Survey | 1.000<br>EACH | _____.____ | _____.____ |
| 0534 | SPV.0060<br>Special 2000. Removing Communications Vault | 1.000<br>EACH | _____.____ | _____.____ |
| 0536 | SPV.0060<br>Special 2001. Ground Rod | 1.000<br>EACH | _____.____ | _____.____ |
| 0538 | SPV.0060<br>Special 3000. Install Poles Type 9 Special | 1.000<br>EACH | _____.____ | _____.____ |
| 0540 | SPV.0060<br>Special 3001. Install Monotube Arms 45-ft Type 9/10 Spec Pole | 1.000<br>EACH | _____.____ | _____.____ |
| 0542 | SPV.0060<br>Special 3002. Trnspt & Install State Furn Traffic Signal Cabinet CTH O & IH 94 WB to NB | 1.000<br>EACH | _____.____ | _____.____ |
| 0544 | SPV.0060<br>Special 3003. Trnspt Traffic Signal & Inter Lighting Materials CTH O & IH 94 WB to NB Of | 1.000<br>EACH | _____.____ | _____.____ |
| 0546 | SPV.0060<br>Special 3004. Trnspt & Inst State Furn EVP Detector Heads CTH O & IH 94 WB-NB Off-Ramp | 1.000<br>EACH | _____.____ | _____.____ |
| 0548 | SPV.0060<br>Special 3005. Temp Emrgcny Vehicle Preemption (EVP) Syst CTH O & IH 94 WB to NB Off Ramp | 1.000<br>EACH | _____.____ | _____.____ |
| 0550 | SPV.0060<br>Special 3006. Abandon Concrete Bases | 1.000<br>EACH | _____.____ | _____.____ |
| 0552 | SPV.0060<br>Special 3007. Remove, Salvage, & Reinstall EVP Equipment IH 94 WB On Ramp & CTH O | 1.000<br>EACH | _____.____ | _____.____ |

**Proposal ID:** 20230509004 **Project(s):** 1060-10-72

**Federal ID(s):** N/A

**SECTION:** 0001 Contract Items

**Alt Set ID:** **Alt Mbr ID:**

| Proposal Line Number | Item ID<br>Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|---|---|---|---|---|
| 0554 | SPV.0060<br>Special 3008. Inst Fiber Optic Comm in Cabinet IH 94 WB to NB Off Ramp & CTH O | 1.000<br>EACH | _____._____ | _____._____ |
| 0556 | SPV.0060<br>Special 4001. Remove, Salvage, and Reinstall Overhead Sign Support S-67-613 | 1.000<br>EACH | _____._____ | _____._____ |
| 0558 | SPV.0060<br>Special 5001. Water Main Offset 12-Inch | 4.000<br>EACH | _____._____ | _____._____ |
| 0560 | SPV.0060<br>Special 5002. Adjust Sanitary Sewer Manhole | 1.000<br>EACH | _____._____ | _____._____ |
| 0562 | SPV.0060<br>Special 5003. Sanitary Manhole Seal | 1.000<br>EACH | _____._____ | _____._____ |
| 0564 | SPV.0090<br>Special 0001. Concrete Curb and Gutter 30-Inch Type A HES | 85.000<br>LF | _____._____ | _____._____ |
| 0566 | SPV.0090<br>Special 0002. Storm Sewer Pipe Rein Concrete Horiz Ell Class HE-IV 38x60-Inch | 56.000<br>LF | _____._____ | _____._____ |
| 0568 | SPV.0165<br>Special 0001. Concrete Sidewalk 5-Inch HES | 590.000<br>SF | _____._____ | _____._____ |
| 0570 | SPV.0165<br>Special 0002. Concrete Safety Island HES | 240.000<br>SF | _____._____ | _____._____ |
| 0572 | SPV.0165<br>Special 4000. Removing Loose Concrete Overhead | 900.000<br>SF | _____._____ | _____._____ |
| | **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

*April 19, 2023*

## NOTICE TO ALL CONTRACTORS:

## Letting Time Addendum #01

## Letting of May 9, 2023

The Bid Submittal Time on the Highway Work Proposal for all proposals in the May 9, 2023 letting inadvertently show a time of 9:00 am. This addendum changes the time to 11:00 am.

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

# 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

*April 20, 2023*

## NOTICE TO ALL CONTRACTORS:

**Proposal #04: 1060-10-72**
**IH 94 East West Freeway**
**Moorland I/C**
**IH 94**
**Waukesha County**

## Letting of May 9, 2023

This is Addendum No. 01, which provides for the following:

**Special Provisions:**

| **Added** Special Provisions | |
|---|---|
| Article No. | Description |
| 83 | Information to Bidders, WPDES Transportation Construction General Permit (TCGP) for Storm Water Discharges |

| **Deleted** Special Provisions | |
|---|---|
| Article No. | Description |
| 10 | Information to Bidders, WPDES General Construction Storm Water Discharge Permit |

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. 01**

**1060-10-72**

**April 20, 2023**

**Special Provisions**

## 10. DELETED.

## 83. 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 Amanda Johansen (amanda.johansen@dot.wi.gov) at (262) 521-4465. Post the permit certificate in a conspicuous place at the construction site.

END OF ADDENDUM

# 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

*May 3, 2023*

## NOTICE TO ALL CONTRACTORS:

**Proposal #04: 1060-10-72**
**IH 94 East West Freeway**
**Moorland I/C**
**IH 94**
**Waukesha County**

## Letting of May 9, 2023

This is Addendum No. 02, which provides for the following:

**Special Provisions:**

| **Revised** Special Provisions | |
|---|---|
| Article No. | Description |
| 75 | Remove, Salvage, and Reinstall Overhead Sign Support S-67-613, Item SPV.0060.4001. |

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**

**1060-10-72**

**May 3, 2023**

## Special Provisions

## 75. Remove, Salvage, and Reinstall Overhead Sign Support S-67-613, Item SPV.0060.4001.

*Replace entire article language with the following:*

### A Description

This special provision describes removing the existing overhead sign support and signs, salvaging and storing the existing sign support and signs during construction, and reinstallation of the overhead sign support and signs at a time specified in the traffic control plans.

### B Materials

#### B.1 Concrete Bases

Furnish concrete and steel reinforcement for concrete bases according to standard spec 531.2.

#### B.2 Anchor Rods

Provide anchor rods, nuts, and washers according to standard spec 531.2.2.

#### B.3 Aluminum I-Beams

Provide new aluminum I-beams for signs mounted to overhead sign support. The new I-beams are incidental to this bid item.

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.

#### B.4 Replacement of Damaged Materials

Replacement of damaged overhead sign support components shall be according to standard spec 532.2 and shall be from the same manufacturer as the original overhead sign support manufacturer unless otherwise approved in writing by the engineer. Replacement of damaged signs shall according to standard spec 637.2.

### C Construction

#### C.1 Documentation of Existing Overhead Sign Support

Provide documentation to the engineer of any existing damage to the overhead sign structure or the existing signs prior to removal of the overhead sign support. The contractor shall be responsible for any undocumented damage to the overhead sign support or signs.

#### C.2 Removal of Existing Overhead Sign Support and Base

Remove the existing overhead sign support structure and signs without damaging the overhead sign support or signs attached to the overhead sign support. Store the overhead sign support at a location outside the grading limits where it will not be damaged by construction activities. The overhead sign support may be stored as a single assembled unit or may be disassembled while not in use.

Remove the existing concrete bases to at least 2 feet below subgrade according to standard spec 204.

#### C.3 Concrete Bases

Construct a new 36-Inch diameter concrete bases in according to standard spec 531.3.

Construct the top of footing elevation so that the sign maintains proper vertical clearance to the roadway.

### C.4 Reinstall Overhead Sign Support

Install the existing overhead sign support according to standard spec 532.3. The sign support shall be fully assembled and signs shall be mounted to the sign support prior to installation of the sign support.

Any overhead sign support components or signs damaged during removal or storage shall be replaced using components from the manufacturer of the original sign support unless approved in writing by the engineer. All new components shall be assembled onto the overhead sign support prior to installation of the sign support.

Field measure and provide documentation to the engineer of the as-built vertical clearance of the sign structure after installation.

### D Measurement

The department will measure Remove, Salvage, and Reinstall Overhead Sign Support S-67-613 by the individual unit acceptably completed.

### E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|---|---|---|
| SPV.0060.4001 | Remove, Salvage, and Reinstall Overhead Sign Support S-67-613 | EACH |

Payment is full compensation for removing, storing, and reinstalling the overhead sign support and attached signs; for removing the existing concrete bases; for drilling and constructing a new concrete base; and for providing and installing new aluminum I-beams.

Missing components or signs and components or signs damaged by the contractor during construction shall not be eligible for additional payment. Missing components or signs and damaged components or signs shall be replaced to the satisfaction of the department at no additional cost to the department.

END OF ADDENDUM