

# HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation  
06/2017 s.66.0901(7) Wis. Stats

Proposal Number: **004**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Southeast Region Wic	1000-20-70	N/A	Sign Bridge Repair&Replacement 2018; Various Frwys, Sth, Us Hwys	VAR HWY

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: \$40,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: June 12, 2018 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time November 16, 2018	<b>SAMPLE</b> <b>NOT FOR BIDDING PURPOSES</b>
Assigned Disadvantaged Business Enterprise Goal 0%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date \_\_\_\_\_

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

\_\_\_\_\_  
(Bidder Signature)

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

\_\_\_\_\_  
(Print or Type Bidder Name)

\_\_\_\_\_  
(Date Commission Expires)

\_\_\_\_\_  
(Bidder Title)

Notary Seal

Type of Work: Sign Bridge Repair, Sign Bridge Replacement	For Department Use Only
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH  
PROPOSAL GUARANTY HERE**

**Effective with November 2007 Letting**

**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.

## Effective with August 2015 Letting

### 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:  
<http://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 P.M. local time on the Thursday before the letting. Check the department's web site after 5:00 P.M. 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 P.M. 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](http://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:  
<http://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 departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, 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:
  1. Have a properly executed annual bid bond on file with the department.
  2. 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<sup>TM</sup> web site.
  2. Use Expedite<sup>TM</sup> software to enter a unit price for every item in the schedule of items.
  3. Submit the bid according to the requirements of Expedite<sup>TM</sup> software and the Bid Express<sup>TM</sup> 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<sup>TM</sup> web site reflecting the latest addenda posted on the department's web site at:  
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

Use Expedite<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> generated schedule of items is not the same on each page.
  2. The check code printed on the printout of the Expedite<sup>TM</sup> 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.

### **C Waiver of Electronic Submittal**

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

# PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

## PRINCIPAL

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

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature and Title)

## NOTARY FOR PRINCIPAL

\_\_\_\_\_  
(Date)

State of Wisconsin )  
 ) ss.  
\_\_\_\_\_ County )

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

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

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

\_\_\_\_\_  
(Date Commission Expires)

**Notary Seal**

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

\_\_\_\_\_  
(Signature of Attorney-in-Fact)

## NOTARY FOR SURETY

\_\_\_\_\_  
(Date)

State of Wisconsin )  
 ) ss.  
\_\_\_\_\_ County )

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

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

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

\_\_\_\_\_  
(Date Commission Expires)

**Notary Seal**

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





# CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

\_\_\_\_\_  
(Signature of Authorized Contractor Representative)

\_\_\_\_\_  
(Date)



## March 2010

## LIST OF SUBCONTRACTORS

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

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

[illegible]

**DECEMBER 2000**

**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

Article	Description	Page #
1.	General.....	3
2.	Scope of Work.....	3
3.	Prosecution and Progress.....	3
4.	Lane Rental Fee Assessment.....	3
5.	Traffic.....	4
6.	Holiday Work Restrictions.....	7
7.	Utilities.....	7
8.	Field Office.....	7
9.	Work by Others.....	7
10.	Signs Type I and II.....	8
11.	Sign Bridge and Overhead Sign Support.....	8
12.	Traffic Control.....	9
13.	Removing Sign Lighting Item 204.9060.S.01.....	9
14.	Removing Electrical Wires from Conduit, Item 204.9090.S.01.....	10
15.	Replace Rodent Screen, Item SPV.0060.01.....	10
16.	Tension Anchor Rods, Item SPV.0060.02.....	11
17.	Repair Foundation, Item SPV.0060.03.....	12
18.	Secure/ Replace Chord Cap, Item SPV.0060.04.....	13
19.	Install Conduit Plug, Item SPV.0060.05.....	13
20.	Replace Safety Chain, Item SPV.0060.06.....	14
21.	Replace Handrail Hinge Pin, Item SPV.0060.07.....	14
22.	Replace U-Bolt, Item SPV.0060.08.....	15
23.	Secure/Replace Vertical Post Cap, Item SPV.0060.09.....	15
24.	Remove Debris and Regrade, Item SPV.0060.10.....	15
25.	Install Sign Panel Connector, Item SPV.0060.11.....	16
26.	Replace Post Mounted Signal, Item SPV.0060.12.....	16
27.	Tension Leveling Nut, Item SPV.0060.13.....	17
28.	Secure Signs Type II, Item SPV.0060.14.....	17
29.	Replace Signal Mount Socket Connection, Item SPV.0060.15.....	18
30.	Replace Walkway Connection Clip, Item SPV.0060.16.....	18
31.	Tighten VMS Connection, Item SPV.0060.17.....	19
32.	Replace Sign Connection Assembly, Item SPV.0060.18.....	19
33.	Secure Luminaire Cover, Item SPV.0060.19.....	20
34.	Remove Vegetation, Item SPV.0060.20.....	20
35.	Remove Catwalk and L-Brackets, Item SPV.0060.21.....	20
36.	Replace Vibration Dampener, Item SPV.0060.22.....	21
37.	Clean and Paint Anchor Rod, Item SPV.0060.23.....	21

38.	Install ID Plaque, Item SPV.0060.24.....	22
39.	Replace Vertical Sign Support, Item SPV.0060.25.....	22
40.	Replace Splice Connection Bolts, Item SPV.0060.26. ....	23
41.	Repair/ Replace Luminaire, Item SPV.0060.27. ....	24
42.	Replace Truss Gusset Connection Bolt, Item SPV.0060.28.....	25
43.	Secure/ Replace Handhole Cover, Item SPV.0060.29. ....	25
44.	Foundation Epoxy Repair, Item SPV.0060.30. ....	26
45.	Replace Unistrut, Item SPV.0060.31. ....	26
46.	Slotted Hole Repair On Sign Support Bracket, Item SPV.0060.32. ....	27
47.	Clean Nesting Debris, Item SPV.0060.33.....	27
48.	Tighten Post to Chord Connection Bolt, Item SPV.0060.34. ....	27
49.	Replace Post to Chord Connection Bolt, Item SPV.0060.35. ....	28
50.	Repair/Replace Concrete Barrier, Item SPV.0090.01. ....	28
51.	Barrier Removal and Retrofit, Item SPV.0090.02. ....	29
52.	Removing Sign Bridge S-40-302 , Item SPV.0105.01; Removing Sign Bridge S-67-203, Item SPV.0105.02; Removing Sign Bridge S-67-300, Item SPV.0105.03.....	30
53.	Repair Galvanized Coating, Item SPV.0165.01.....	31



**SPECIAL PROVISIONS**

**1. General.**

Perform the work under this construction contract for Project 1000-20-70, Sign Bridge Repair and Replacement 2018, Southeast Region Wide, on various highways and freeways located in Kenosha, Milwaukee, Racine, Ozaukee, and Waukesha Counties, 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, 2018 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 (20171130)

**2. Scope of Work.**

The work under this contract shall consist of replacing and repairing existing sign bridges in various counties on various highways and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

**3. Prosecution and Progress.**

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

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

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

Prior to beginning of construction operations, submit your method of handling traffic, in writing, to the engineer and obtain approval from the engineer for your proposed method.

The engineer may suspend all operations in the event of an extremely hazardous situation.

At no time conduct construction operations in the median area and adjacent outside shoulder area, or ramp areas at the same time.

All existing sign structures shall remain in operation until replacement sign structure is in full operation. At no time shall the existing structure be removed prior to full operation of replacement structure.

Trans 401 requires an Erosion Control Implementation Plan (ECIP) to be submitted to the appropriate WisDOT office and the WDNR at least 14 days prior to the preconstruction meeting. Erosion control shall be considered incidental to all applicable items in this project.

**4. Lane Rental Fee Assessment.**

**A General**

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

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

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

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

#### **A.1 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:

\$6000 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.

### **5. Traffic.**

At no time, lift or erect signs over live traffic lanes.

#### **Freeway Work**

Do not perform any work requiring lane or ramp closure on the project during the peak traffic periods in Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington and Waukesha Counties. All lane and shoulder closures shall be entered in the Wisconsin Lane Closure System prior to any work.

Do not perform any work on Milwaukee County freeways, which require lane closures from 5:30 AM to 7:00 PM weekends.

#### **Definitions**

The following definitions shall apply to this contract:

Single Lane Closures- Off-Peak Hours

Dual Lane Closures- Night Time Hours

Full Closures- Full Closure Hours.

Shoulder closures will be allowed weekdays from 9:00 AM – 2:00 PM

#### **Milwaukee County:**

##### **Weekday Peak Hours**

- 5:30 AM – 8:00 PM Monday, Tuesday, Wednesday, and Thursday
- 5:30 AM – 11:00 PM Friday

##### **Weekend Peak Hours**

- 7:30 AM – 7:00 PM Saturday and Sunday

##### **Weekday Off-Peak Hours**

- 8:00 PM – 9:30 PM Monday, Tuesday, Wednesday, and Thursday

#### Weekend Off-Peak Hours

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

#### Night Time Hours

- 9:30 PM – 5:30 AM (Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
- 11:00PM – 7:30 AM (Friday PM to Saturday AM, Saturday PM to Sunday AM)

#### Full Freeway Closure Hours

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

#### **Waukesha County:**

##### Peak Hours

- 5:30 AM – 9:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 2:00 PM – 7:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

##### Off-Peak Hours

- 9:00 AM – 2:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday
- 7:00 PM – 9:30 PM Monday, Tuesday, Wednesday, Thursday
- 7:00 PM – 11:00 PM Friday
- 8:00 AM – 10:00 AM Saturday and Sunday
- 7:00 PM – 11:00 PM Saturday
- 7:00 PM – 9:30 PM Sunday

##### Night Time Hours

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

#### **Racine/Kenosha/Ozaukee/Washington County:**

##### Peak Hours:

- 5:30 AM – 9:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 2:00 PM – 7:00 PM Monday, Tuesday, Wednesday, and Thursday
- Noon – 7:00 PM Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

##### Off-Peak Hours

- 9:00 AM – 2:00 PM Monday, Tuesday, Wednesday, and Thursday
- 9:00 AM – Noon Friday
- 7:00 PM – 9:30 PM Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday
- 8:00 AM – 10:00 AM Saturday and Sunday

##### Night Time Hours

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

## Freeway Work Restrictions

All lanes of the freeway shall be entirely clear and open to traffic at all times except for approved Night Time Hours or Off-Peak Hour closures as approved by the engineer. Single lane operation is permitted during Night Time Hours and Off-Peak Hours pending approval of the engineer. Dual lane operation is only permitted during Night Time Hours pending approval of the engineer. Lane closures shall be according to the standard detail drawings (SDD) and have the approval of the engineer and the Southeast Region Work Zone Engineer, (262) 548-8728.

System to system ramp closures shall only be allowed during Night Time Hours.

Service interchange on-ramps can be closed during Off Peak and Night Time Hours. In addition, the ramps may be closed between 9:00 AM and 2:00 PM Monday through Friday, pending approval of the engineer.

All freeway lanes must remain open from noon Saturday, August 25, 2018 through 6:00 AM Tuesday, September 4, 2018 for the Harley-Davidson 115th Anniversary events.

### Milwaukee County:

- On days with the Wisconsin State Fair (August 2, 2018 – August 12, 2018) at State Fair Park, no closures will be permitted;
- On days with Summerfest (June 27, 2018 – July 8, 2018) at Henry Maier Festival Grounds, no closures will be permitted;
- On weekend days during a Milwaukee County Zoo event from two hours prior to the start of the event until two hours after the event, no closures will be permitted;
- On days during a Milwaukee Brewers home baseball game from three hours prior to the start of the game until four hours after the game, no closures will be permitted;
- On days during a Green Bay Packer home football game from four hours prior to the start of the game until four hours after the game, no closures will be permitted.

## General Requirements

The work included under this contract requires new sign bridges. These are spelled out in each quantity item section of the plan. If the freeway mainline or any highway must be closed for 15 minutes or less, do so only between the hours of 2:00 AM – 4:00 AM. Give the engineer at least seven working days' advance notice for such required freeway closure. Coordinate the closure with the County Sheriff's Departments and the Wisconsin State Patrol.

All lanes of on, off, and system interchange ramps shall be completely free of traffic control devices during peak hours. During off-peak hours, ramps may be reduced to one 12-foot lane. Ramps may be closed during off-peak hours with the prior approval of the engineer and only for the minimum time required to complete the work. It is required to post the ramps with signs as required above.

Failure to not have lanes open to traffic and all traffic control devices associated with the lane or shoulder closure removed during the above restriction will be assessed a lane rental charge according to the Lane Rental Fee Assessment article of these special provisions.

Work Zone traffic control devices and signs shall not be placed over or within 50 feet of the railroad right-of-way located at B-67-16 (I-94 westbound over RR) or B-67-17 (I-94 eastbound over RR), located approximately 0.71 miles east of S-67-321.

## 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**

<b>Closure type with height, weight, or width restrictions (available width, all lanes in one direction &lt; 16')</b>	<b>MINIMUM NOTIFICATION</b>
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days

<b>Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥16')</b>	<b>MINIMUM NOTIFICATION</b>
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 Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying live 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 periods:

- From noon Friday, August 31, 2018 to 6:00 AM Tuesday, September 4, 2018 for Labor Day;
- From noon Friday, June 29, 2018 to 6:00 AM Monday, July 9, 2018 for Independence Day;
- From noon Wednesday, November 21 to 6:00 AM Monday, November 26, 2018 for Thanksgiving.

## **7. Utilities.**

This contract comes under the provisions of Administrative Rule TRANS 220.

Additional information regarding recently relocated utility facilities may be available on permits issued to the utility companies. These permits can be viewed at the Region Office during normal working hours. Contact WisDOT SE Freeways Utility Coordinator Greg Berry at (414) 750-7824 for further information.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are not required for this construction project. 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 state statute. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

Contact utility companies listed in the plans prior to preparing bids to obtain current information on existing utility locations and the status of any new utility relocation work.

There may be discontinued utility facilities within the project limits. If a conflict with a discontinued utility facility is encountered, contact the appropriate utility owner/representative to coordinate construction activities and proper removal and disposal of said facility as necessary.

It may be necessary for the contractor, as directed by the engineer, to make adjustments in the location of certain sign bridges (base and or service connections to the sign bridge) when it becomes evident that a utility conflict could occur.

## **8. Field Office**

A Field Office will not be required for the project. Due to the short duration at each location and the widely scattered repair locations throughout WisDOT Southeast Region, inspection staff will work out of their vehicles. Meetings with the contractor will be held at the Waukesha State Office Building, 141 NW Barstow Street, Waukesha WI 53187 or at a location approved by the engineer.

## **9. Work by Others.**

Some maintenance, utility, or construction work may be under way on portions of highways on which work is indicated under this contract. When maintenance, utility work, or construction is in progress or will be performed that affects the work under the contract, the engineer shall determine if the contract shall defer installation to a later date, or eliminate the installation from this contract.

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

The following projects may be under construction concurrently with the work under this contract:

1100-36-72, I-41, Bridges over Nor-x-way Channel, Waukesha County; 1228-21-71, I-43/I-94, Valley Bridge, Bridge Rehab, Milwaukee County; 1060-28-70, I-94/I-41/I-794, Marquette Interchange, Bridge Rehab, Milwaukee County; 1060-33-81, I-41/USH 45, Zoo Interchange Phase 2, Lincoln to Bluemound

Rd and 121st to 70th Street, Reconstruct, Milwaukee County; 2010-14-70, I-41, Zoo Freeway, Resurfacing, Milwaukee County; 1100-34-70, I-894, 84th Street to National Ave, Resurfacing, Milwaukee County; 1030-24-70, I-94, N-S Freeway and STH 11 Interchange, Racine County.

Work within WisDOT SE Region mega-projects will require coordination with the WisDOT SE freeways construction team and may require participation in weekly traffic meetings to coordinate the closures needed to do the work. A two-week look ahead schedule is required to be maintained by the contractor and will be submitted to the engineer for any work that falls within the mega-project limits. The two-week look ahead schedule will be submitted to the engineer by 9am each Wednesday, and this work will be coordinated with other project work. All lane closures are subject to approval from the engineer.

Other roadway construction projects may be present that are not listed above. Coordinate with the engineer and check current project listings on <https://projects.511wi.gov/> and <http://wisconsindot.gov/Pages/home.aspx> for more information.

Coordinate activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts.

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

## **10. 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 incidental to sign.

*Add the following to standard spec 637.2.4:*

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. Measure the width of the L-brackets on existing structures to determine the width needed for sign support beams

Use beams a minimum of six 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, one-half 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 637.2.4.1(2)3 with the following:*

Clips may be either stainless steel or ASTM B 108, aluminum alloy, 356.0-T6.

*Append standard spec 637.3.3.2(2) with the following:*

Install Type I Signs at the offset stated in the plan, which shall be the clear distance between the edge of mainline pavement right edge line and the near edge of the sign.

*Append 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.

## **11. Sign Bridge and Overhead Sign Support.**

*Append standard spec 641.2.9 with the following:*

Submit all sign bridge and overhead sign support shop drawings to Tom Hydell, SE Region, (262) 548-6763.

## **12. Traffic Control.**

*Supplement the requirements of standard spec 643 with the following:*

Install appropriate advance warning signs according to standard spec 643. Location, sign shape, message and color shall be according to the plan, part VI of the Manual on Uniform Traffic Control Devices and as directed by the engineer in the field.

Mask-out, or lay down, all traffic control signs when not in use as designated by the engineer. If traffic control signs are to be laid down this includes the supports.

Should work operations, in the opinion of the engineer, require freeway lane closures, close such lanes according to the following:

Prior to beginning daily construction operations, furnish, place, and maintain traffic devices at the work areas as prescribed in the plan, in conformance with Part VI of the Manual on Traffic Control Devices, and as approved by the engineer.

For daytime work, in lieu of drums, channelizing devices may be 28-inch high cones with a weighted base designed and manufactured specifically for the cones furnished. Place cones no further than 50 feet apart.

Provide two Type C portable self-contained flashing arrow boards designed to warn the motorists of lane closures. Place one of the flashing arrow boards in the area of the taper section for lane closure and one on the adjacent shoulder preceding the taper section as directed by the engineer. Do not operate the flashing arrow board when work is confined to the shoulder area without encroachment on traffic lanes.

The cost of flashing arrow boards, when required, shall be incidental to the bid item 643.5000, Traffic Control, and will not be measured or paid for separately.

When the flashing arrow boards are not in use, remove them from the job site or turn them away so they are not visible to traffic in either direction.

If contractor operations require ramp closures or system ramp closures, use portable changeable message signs (PCMS) to give a minimum of 3 business days advanced notice to motorists. Traffic Control PCMS shall be furnished according to standard spec 643 and the WMUTCD. Traffic Control PCMS use is incidental to the item 643.5000 Traffic Control, and will not be measured separately for payment.

Do not park or store any equipment, vehicles or construction materials within the clear zone, i.e., 34 feet of the edge of the traffic lane of any roadway carrying freeway traffic during non-working hours except at locations and periods of time approved by the engineer. At such locations, ensure that the materials and equipment involved do not constitute a hazard to the traveling public.

No equipment or vehicles will be permitted to directly cross live traffic lanes of the freeway. All construction vehicles shall yield to all through traffic at all locations. Equip all contractor vehicles or equipment operating in the live traffic lanes with a hazard identification beam (flashing yellow signal light). The flashing yellow light shall be activated when merging into or exiting a live traffic lane.

Do not use flag persons to direct, control or stop freeway traffic.

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

Have available at all times sufficient experienced personnel to promptly install, remove, and reinstall the required traffic control devices and to route traffic in order to perform the operations.

Item 643.5000 Traffic Control shall be measured and paid for as a 1-Each for the entirety of the project. All traffic control devices listed in standard spec 643 of the standard specification, including drums, traffic cones, signs, barricades, flashing lights, PCMS, and arrow boards will be incidental to 643.5000 Traffic Control and will not be paid separately.

## **13. Removing Sign Lighting Item 204.9060.S.01.**

### **A Description**

This special provision describes removing all the sign lighting on a sign structure as the plans show, conforming to standard spec 204, and as follows.

**B Material**

All removed material shall become the property of the contractor and be disposed off the project site. Lamps, which are considered a hazardous material, become property of the contractor and shall be disposed of in an environmentally sound manner.

**C Construction**

Remove all the luminaires, lamps, conduit, and wiring associated with existing sign lighting on an existing sign structure.

**D Measurement**

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

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Sign Lighting	Each
SER-204.16 (20171021) RMVL		

**14. Removing Electrical Wires from Conduit, Item 204.9090.S.01.****A Description**

This special provision describes removing electrical wires from existing conduits and disposing of the resulting material as the plans show, conforming to standard spec 204, and as follows. The existing conduit shall remain in place.

**B (Vacant)****C Construction**

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.

All wires shall be removed from the existing embedded or underground conduits as the plans show and as the engineer directs. Any necessary splices or disconnections shall be done as part of this pay item. Removed wires become the property of the contractor. Properly dispose of all material off the project site.

**D Measurement**

The department will measure Removing Electrical Wires from Conduit by linear foot, acceptably completed. The vertical length and wire slack shall be incidental.

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Electrical Wires from Conduit	LF
SER-204.10 (20170405) RMVL		

**15. Replace Rodent Screen, Item SPV.0060.01.****A Description**

This special provision describes replacing the missing rodent screens as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and 652 and as shown in the plans. All hardware required to properly secure the rodent screen will be considered incidental to this item.



## C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641 and 652 and as shown in the plans. Replace the deteriorated rodent screen with the same size rodent screen. Construct rodent screens such that the screen is in contact with the foundation to prevent rodent access to the interior of the structure.

## D Measurement

The department will measure Replace Rodent Screen as each individual rodent screen, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Replace Rodent Screen	Each

Payment is full compensation for replacing rodent screen; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

## 16. Tension Anchor Rods, Item SPV.0060.02.

### A Description

This special provision describes re-tensioning loose anchor rod nuts as shown on the plans, and as hereinafter provided.

### B Materials

Furnish materials that are according to the pertinent provisions of standard spec 641 and as shown in the plans.

### C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans. This work will consist of re-tensioning all loose anchor rod nuts as specified in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. The contractor shall verify the grade of the anchor rod. If an anchor rod grade cannot be verified, the department shall be contracted for direction. Note that A36 rods have different tensioning requirements.
2. The contractor shall field verify the size and number of nuts required to be replaced. Note that if one or more are found to be loose, all are required to be replaced.
3. Remove all jam nuts<sup>1</sup>.
4. The contractor shall furnish flat washers and heavy hex nuts conforming to Standard spec 641.2.2.3. Existing jam nuts<sup>1</sup> may be reused.
5. Remove rodent screen<sup>1</sup>.
6. Remove and dispose of the grout pad<sup>1</sup> according to standard spec 509.3.4.
7. Tighten all nuts that are loose to snug tight (leveling and top nut). Reference the department's Form DT2321 for snug tight torque values.
8. Contact the department for direction of the top nut is not fully snugged and cannot be turned.
9. Once all nuts are snug, remove one and only one top nut at a time and follow the remaining procedure. Top nuts, flat washers, and locking washers (if applicable) shall be discarded, the leveling nuts shall remain, and jam nuts<sup>1</sup> may be reused.
10. Remove rust and dirt, from anchor rod and base plate with a wire brush.
11. Apply one light coat of fast drying zinc rich primer or spray-on cold galvanized (if rust is present) to the full length of the anchor bolt and at damaged base plates. Repair any damaged galvanized coating incidental to the re-tensioning process.
12. Apply wax-based lubricant to the anchor rod.

13. Install top nut to snug tight. Reference the department's form DT2321 for snug tight torque values.
14. Repeat steps 3 through 12 in this specification until all washers and nuts have been replaced.
15. Tension the anchor rod nuts. Follow the department's Form DT2321 procedure steps 5 through 7 and record the tensioning process.
16. Clean, lubricate and install jam nut<sup>1</sup> per step 8 of Form DT2321.
17. Apply two coats of zinc rich primer to any damaged areas of the structure base plates and used jam nuts.
18. Reinstall the rodent screen<sup>1</sup>.
19. Complete Form DT2321 for each structure and submit to Jason Zemke (262-548-8734) for transmittal to Bureau of Structures and inclusion in HSIS.

Note<sup>1</sup> – Only for structures that have jam nuts, grout, or rodent screens.

All work for this item, including site clean-up, shall be completed in one shift. If it is a cantilever structure with a connection which has 6 or less bolts, the truss or mastarm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer, and shall be submitted to the engineer and BOS for permanent record.

#### **D Measurement**

The department will measure Tension Anchor Rod as each individual base plate location, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Tension Anchor Rod	Each

Payment is full compensation for tensioning loose anchor rod nuts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

### **17. Repair Foundation, Item SPV.0060.03.**

#### **A Description**

This special provision describes removing all cracked and deteriorated foundation concrete to sound concrete, then forming and pouring new cast-in-place concrete as shown on the plans, and as hereinafter provided.

#### **B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 501 and 636 and as shown in the plans. Erosion control per specification 628 shall be considered incidental to this item.

#### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 509.3.7, 501 and 636 and as shown in the plans. If reinforcing steel is exposed during removal of the deteriorated concrete, expose the steel to a depth of one inch beneath the bar. Keep the existing concrete surface wet one hour prior to the placement of the new concrete. When a horizontal surface is being repaired, smooth the surface and slope it to prevent water from pooling on the foundation surface. Erosion control per standard spec 628 shall be considered incidental to this item.

#### **D Measurement**

The department will measure Repair Foundation as each individual foundation, acceptably repaired.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Repair Foundation	Each

Payment is full compensation for repairing concrete; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

## **18. Secure/ Replace Chord Cap, Item SPV.0060.04.**

### **A Description**

This special provision describes securing or replacing missing or deteriorated chord caps as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and 506 and as shown in the plans. Contractor to field verify size of chord caps to be replaced.

### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and 506 and as shown in the plans. Miscellaneous hardware required to securely install the end cap will be considered incidental to this item.

### **D Measurement**

The department will measure Secure/ Replace Chord Cap as each individual chord cap, 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.0060.04	Secure/ Replace Chord Cap	Each

Payment is full compensation for replacing an end chord; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

## **19. Install Conduit Plug, Item SPV.0060.05.**

### **A Description**

This special provision describes replacing missing conduit plugs as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to standard spec 652 and as shown in the plans.

### **C Construction**

Use construction methods that are according to standard spec 652 and as shown in the plans.

Field verify the size of the conduit plug required. Lubricate the conduit plug threads with an approved anti-seize compound.

### **D Measurement**

The department will measure Install Conduit Plug as each individual conduit plug, 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.0060.05	Install Conduit Plug	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing the new conduit plug, including anti-seize compound.

**20. Replace Safety Chain, Item SPV.0060.06.**

**A Description**

This special provision describes replacing catwalk safety chains as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to standard spec 641 and as shown in the plans.

**C Construction**

Use construction methods that are according to standard spec 641, state standard details, and as shown in the plans.

Field verify the length of safety chain required and the diameter of existing eyebolts.

Provide new eye bolts, nuts and washers for the safety chain. If the new eyebolts cannot be installed in the existing connection holes, drill the existing connection holes large enough to accept the new eyebolts. Remove and properly dispose of the existing safety chain being replaced.

**D Measurement**

The department will measure Replace Safety Chain as each individual safety chain, 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.0060.06	Replace Safety Chain	Each

Payment is full compensation for field verifying existing conditions; for removing and properly disposing of the existing safety chain and connection hardware; for furnishing and installing the new safety chain and connection hardware, including drilling connection holes.

**21. Replace Handrail Hinge Pin, Item SPV.0060.07**

**A Description**

This special provision describes replacing the railing hinge pin as shown on the plans, and as hereinafter provided. Contractor to field verify the length and size of hinge pins to be replaced. Hinge pins shall be tethered to the structure by a chain to prevent the pin from falling from the structure.

**B Materials**

Stainless steel handrail hinge pins shall conform to ASTM 304.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans.

**D Measurement**

The department will measure Replace Railing Hinge Pin as each individual hinge pin, 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.0060.07	Replace Railing Hinge Pin	Each

Payment is full compensation for installing the handrail hinge pin; for removing and properly disposing of existing materials; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

**22. Replace U-Bolt, Item SPV.0060.08.**

**A Description**

This special provision describes furnishing and replacing damaged or loose U-bolts as shown on the plans, and as hereinafter provided.

**B Materials**

Stainless steel U-bolts and lock washers shall conform to ASTM 304. Stainless steel hex nuts shall conform to ASTM A276.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans.

**D Measurement**

The department will measure Replace U-bolt as each individual U-bolt 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.0060.08	Replace U-bolt	Each

Payment is full compensation for furnishing and replacing U-bolts, nuts and lock washers; for removing and properly disposing of existing materials; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

**23. Secure/Replace Vertical Post Cap, Item SPV.0060.09.**

**A Description**

This special provision describes replacing missing or deteriorated vertical post caps and securing them as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and 506 and as shown in the plans. Contractor to field verify size of post caps to be replaced.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and 506 and as shown in the plans. Miscellaneous hardware required to securely install the end cap will be considered incidental to this item.

**D Measurement**

The department will measure Secure/Replace Vertical Post Cap as each individual post cap, 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.0060.09	Secure/Replace Vertical Post Cap	EACH

Payment is full compensation for replacing and/or securing a post cap; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

**24. Remove Debris and Regrade, Item SPV.0060.10.**

**A Description**

This special provision describes removing debris and grading around the foundation as shown on the plans, and as hereinafter provided.

**B (Vacant)****C Construction**

Remove debris and dispose of it according to standard spec 202. Grade the area around the foundation to drain according to standard spec 213.

**D Measurement**

The department will measure Remove Debris and Regrade as each foundation location, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Remove Debris and Regrade	Each

Payment is full compensation for removing and disposing of the debris; grading to the foundation; and for restoration.

**25. Install Sign Panel Connector, Item SPV.0060.11.****A Description**

This special provision describes furnishing and installing sign panel connectors and removing and replacing existing defective or damaged sign panel connectors as shown in the plans, and as hereinafter provided.

**B Materials**

Provide sign panel connectors, bolts, nuts and washers meeting the requirements of standard spec 637.2.4 and Sign Plate A5-2. Connectors shall be aluminum alloy 356-T6, bolts shall be stainless steel, flat washer shall be 3/8" x .091 stainless steel, and stop nuts shall be stainless steel.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 637 and as shown in the plans.

Remove and properly dispose of defective or damaged existing sign panel connectors.

Tighten the bolts and nuts to the manufacturer's recommended torque value.

**D Measurement**

The department will measure Install Sign Panel Connector as each individual sign panel connector, 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.0060.11	Install Sign Panel Connector	Each

Payment is full compensation for furnishing and installing sign panel connectors, bolts, nuts and washers; and for removing and properly disposing of existing defective or damaged sign panel connectors.

**26. Replace Post Mounted Signal, Item SPV.0060.12.****A Description**

This special provision describes replacing the post mounted signal as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 658 and as shown in the plans. All bolts, nuts, washers or miscellaneous items required to replace the signal assemblies will be considered incidental to this item.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 658 and as shown in the plans. Provide all materials required to install the post mounted signal assembly.

**D Measurement**

The department will measure Replace Post Mounted Signal as each individual replaced signal, 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.0060.12	Replace Post Mounted Signal	Each

Payment is full compensation for replacing signal; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

**27. Tension Leveling Nut, Item SPV.0060.13.****A Description**

This special provision describes tensioning leveling nuts as shown on the plans, and as hereinafter provided.

**B (Vacant)****C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans. This work will consist of re-tensioning all loose leveling anchor rod nuts to snug tight. Repair any damaged galvanized coating incidental to the re-tensioning process.

**D Measurement**

The department will measure Tension Leveling Nut as each individual nut, 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.0060.13	Tension Leveling Nut	Each

Payment is full compensation for tensioning leveling nuts and for furnishing all materials and miscellaneous items to complete the repair.

**28. Secure Signs Type II, Item SPV.0060.14.****A Description**

This special provision describes securing type II signs as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to Sign Plate A5-9.

**C Construction**

Field verify the size of the Type II sign.

Fasten the type II sign to the post according to the requirements of Sign Plate A5-9.

**D Measurement**

The department will measure Secure Signs Type II by each unit, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Secure Signs Type II	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing all connection hardware and attaching the type II sign.

## **29. Replace Signal Mount Socket Connection, Item SPV.0060.15.**

### **A Description**

This special provision describes replacing the signal mount socket connection as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 658 and as shown in the plans. All bolts, nuts, washers or miscellaneous items required to replace the cracked or deteriorated signal connections will be considered incidental to this item.

### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 658 and as shown in the plans. Provide all materials required to replace the signal mount socket connection.

### **D Measurement**

The department will measure Replace Signal Mount Socket Connection as each individual replaced signal connection socket, 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.0060.15	Replace Signal Mount Socket Connection	Each

Payment is full compensation for replacing signal socket connection; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

## **30. Replace Walkway Connection Clip, Item SPV.0060.16.**

### **A Description**

This special provision describes furnishing and installing walkway connection clips and removing and replacing existing defective or damaged walkway clips as shown in the plans, and as hereinafter provided.

### **B Materials**

Provide walkway connection clips, bolts, nuts and washers shall be galvanized steel.

### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641, state standard details, and as shown in the plans.

Remove and properly dispose of defective or damaged existing connection clips.

Tighten the bolts and nuts to the manufacturer's recommended torque value.

### **D Measurement**

The department will measure Replace Walkway Connection Clip as each individual clip, 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.0060.12	Replace Walkway Connection Clip	Each

Payment is full compensation for furnishing and installing walkway connection clips, bolts, nuts and washers; and for removing and properly disposing of existing defective or damaged clips.

### **31. Tighten VMS Connection, Item SPV.0060.17.**

#### **A Description**

This special provision describes tightening VMS connections as shown on the plans, and as hereinafter provided.

#### **B (Vacant)**

#### **C Construction**

Use construction methods that are according to the pertinent provisions of standard specification standard spec 641 and as shown in the plans. This work will consist of tightening all loose VMS connections to snug tight.

#### **D Measurement**

The department will measure Tighten VMS Connection as each VMS, 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.0060.17	Tighten VMS Connection	Each

Payment is full compensation for tightening VMS connections and for furnishing and installing all materials and miscellaneous items to complete the repair.

### **32. Replace Sign Connection Assembly, Item SPV.0060.18.**

#### **A Description**

This special provision describes replacing the cracked or missing sign connection assembly as shown on the plans, and as hereinafter provided.

#### **B Materials**

Furnish connection materials for type II-mounted signs that are according to the standard spec 637 and which are on the department's approved product list and as shown in the plans.

#### **C Construction**

Use construction methods that are according to standard spec 637 and 641 and as shown in the plans. All bolts, nuts, washers or miscellaneous items required to replace the cracked or deteriorated sign connection assembly will be considered incidental to this item.

#### **D Measurement**

The department will measure Replace Sign Connection Assembly as each individual sign mounting system, acceptably installed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.18	Replace Sign Connection Assembly	Each

Payment is full compensation for replacing type II mounting systems; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

**33. Secure Luminaire Cover, Item SPV.0060.19.**

**A Description**

This special provision describes securing the luminaire cover as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to standard spec 659 and as shown in the plans.

**C Construction**

Use construction methods that are according to the standard spec 659 and as shown in the plans.

Field verify the size and type of connection fastener in the existing luminaire and provide new fasteners of the same size and type. If the existing fasteners are sheared off in the luminaire cover, drill and tap the holes to accept new fasteners.

Remove and properly dispose of the existing fasteners being replaced.

**D Measurement**

The department will measure Secure Luminaire Cover as each individual luminaire cover, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.19	Secure Luminaire Cover	Each

Payment is full compensation for field verifying existing conditions; for removing and properly disposing of the existing fasteners; for furnishing and installing the new fasteners, including drilling and tapping holes.

**34. Remove Vegetation, Item SPV.0060.20.**

**A Description**

This special provision describes removing vegetation at the foundation as shown on the plans, and as hereinafter provided.

**B (Vacant)**

**C Construction**

Remove vegetation and dispose of it according to standard spec 201. Remove all vegetation with-in a 1 foot radius from the edge of the structure foundation.

**D Measurement**

The department will measure Remove Vegetation as each foundation location, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.20	Remove Vegetation	Each

Payment is full compensation for removing and disposing of the vegetation.

**35. Remove Catwalk and L-Brackets, Item SPV.0060.21.**

**A Description**

This special provision describes removing an existing catwalk and L-Bracket(s) as shown on the plans, and as hereinafter provided.

**B (Vacant)**

### **C Construction**

Remove and dispose of all portions of the existing catwalk, catwalk connections, and L-bracket(s).

Exercise care when removing the existing catwalk so the existing sign structure truss is not damaged. Any damage to the sign truss due to the removal operations shall be repaired by the contractor at the contractor's expense.

### **D Measurement**

The department will measure Remove Catwalk and L-Bracket, completed according to the contract and accepted, as each unit of work.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Remove Catwalk and L-Bracket	Each

Payment is full compensation for removing and properly disposing of existing materials; for furnishing all materials and miscellaneous items to complete the removal; repairing damage to the existing sign truss; and for handling and transporting.

## **36. Replace Vibration Dampener, Item SPV.0060.22.**

### **A Description**

This special provision describes replacing dampeners as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to pertinent provisions of standard spec 641 and as shown in the plans.

### **C Construction**

Use construction methods that are according to pertinent provisions of standard spec 641 and as shown in the plans. Miscellaneous hardware required to securely install the dampener will be considered incidental to this item.

### **D Measurement**

The department will measure Replace Vibration Dampener as each individual replaced dampener, 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.0060.22	Replace Vibration Dampener	EACH

Payment is full compensation for replacing a dampener; for removing and properly disposing of existing materials being replaced; for furnishing and installing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

## **37. Clean and Paint Anchor Rod, Item SPV.0060.23.**

### **A Description**

This special provision describes cleaning the corrosion on the anchor rods, roughing the surface on the anchor rods, and cold-galvanizing the anchor rods.

### **B Materials**

Furnished cold-applied galvanizing per WisDOT approved product list.

### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and 506 and as shown in the plans. This work consists of thoroughly cleaning the anchor rod threads with a wire wheel/brush to remove all corrosion.

Apply cold-galvanizing to the full length of the anchor bolts, nuts, washers, and at any locations on the damaged base plates. Apply cold-galvanizing per the manufacturer's recommendation.

The repairs include, but are not limited to, the following activities:

- Cleaning and removing all corrosion on the exposed anchor rods.
- Roughening surface of anchor bolts and if applicable.
- Repair of galvanized coating.

### **D Measurement**

The department will measure Clean and Paint Anchor Rod as each individual anchor rod, 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.0060.23	Clean and Paint Anchor Rod	Each

Payment is full compensation for furnishing all materials and miscellaneous items to complete the repair as shown on the plans; and for fabricating, handling, transporting, installing.

## **38. Install ID Plaque, Item SPV.0060.24.**

### **A Description**

This special provision describes installing sign bridge ID plaques as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to SDD Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Support, and Traffic Signals.

### **C Construction**

Install the sign bridge ID plaque according to SDD Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Support, and Traffic Signals.

### **D Measurement**

The department will measure Install ID Plaque as each individual sign bridge ID plaque, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Install ID Plaque	Each

Payment is full compensation for installing sign bridge ID plaque; for removing and properly disposing of existing materials being replaced; for furnishing and installing all materials and miscellaneous items to complete the installation; and for fabricating, handling, transporting, and erecting.

## **39. Replace Vertical Sign Support, Item SPV.0060.25.**

### **A Description**

This special provision describes replacing vertical sign supports as shown in the plans, and as hereinafter provided.

## **B Materials**

Furnish sign supports according to the requirement as specified in the plans and standard spec 637.

Furnish sign panel connectors that are according to the WisDOT sign plate manual Aluminum Extrusions for Type I Signs, and with applicable requirement of the Attachment of Guide Signs to Supports.

Furnish stainless steel U-bolts, nuts and lock washers with the pertinent provisions of standard spec 641 and as shown in the plans.

## **C Construction**

Field verify the depth of the existing brackets and provide the same bracket depth for the new vertical sign supports. If the existing brackets are less than 5-inches in depth, contact the engineer prior to proceeding with any further work.

Install the vertical sign support brackets, stainless steel U-bolts and sign panel connectors as shown in the plans. Holes for stainless steel U-bolts cannot be slotted.

## **D Measurement**

The department will measure Replace Vertical Sign Support by each support, acceptably completed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Replace Vertical Sign Support	Each

Payment is full compensation for field verifying existing size of brackets; for furnishing and installing the vertical sign supports brackets, including the furnishing and installing of sign panel connectors and stainless steel U-bolts.

## **40. Replace Splice Connection Bolts, Item SPV.0060.26.**

### **A Description**

This special provision describes replacing the splice connection bolts at each splice connection as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641.

### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. Each bolt to be tensioned shall be replaced in kind with a new bolt in order to properly tension the bolt. Bolts should be removed one at a time in a connection. The new bolt installed will follow the below procedure.
2. The contractor shall field verify the size and number of bolts, nuts, flat washers, and DTI washers at each structure to be replaced. Note that since the DTI's are to be utilized, the number of washers may change and the lengths of the bolts may need to be increased.
3. Lock washers shall not be used in new splice connections.
4. The contractor shall furnish bolts, flat washers, heavy hex nuts, shims, and DTI's conforming to standard spec 506.
5. Perform the pre-installation test according to the department's form DT2322.
6. Tighten all nuts that are loose to snug tight. Note that this is to be done for stability purposes.
7. Once all nuts are snug, remove one and only one bolt at a time<sup>1</sup> and follow the remaining procedure. Existing bolts, nuts washers, and shims shall be discarded.
8. Install the bolt to snug tight.
9. Repeat steps 5 through 8 in this specification until all bolts have been replaced.

10. Follow the department's Form DT2322 installation procedure for tensioning of the replacement bolts.
11. Complete Form DT2322 for each structure and submit to the regional ancillary structure engineer for transmittal to BOS and inclusion in HSIS.

Note<sup>1</sup> – All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure with a connection which has 6 or less bolts, the truss or mastarm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer, and shall be submitted to the engineer and BOS for permanent record.

#### **D Measurement**

The department will measure Replace Splice Connection Bolts at each individual splice location, acceptably completed. Each individual splice location is defined as all connection bolts on all chords at a given horizontal location along the length of the span.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Replace Splice Connection Bolts	Each

Payment is full compensation for replacing all necessary splice bolts at splice connections; and for furnishing and installing all materials and miscellaneous items to complete the work.

### **41. Repair/ Replace Luminaire, Item SPV.0060.27.**

#### **A Description**

This special provision describes repairing or replacing the luminaires as shown on the plans, and as hereinafter provided.

#### **B Materials**

Furnish replacement luminaires or portions of the existing luminaires to match existing and that are according to standard spec 651 and standard spec 659.

#### **C Construction**

Use construction methods that are according to the standard spec 651 and 659 and as shown in the plans.

Contractor shall remove each luminaire at the locations shown on the plans. Document the condition of each luminaire with sketches and photographs and submit to the engineer. Within 7 business days after receiving the documentation the engineer will determine if the luminaire shall be replaced or repaired.

Field verify the size and type of existing luminaire and provide new fasteners or luminaires of the same size and type. If the existing fasteners are sheared off the luminaire, drill and tap the holes to accept new fasteners.

Remove and properly dispose of the existing luminaires being replaced.

#### **D Measurement**

The department will measure Repair/ Replace Luminaire as each individual luminaire cover, acceptably completed. It is anticipated that only 20% of the luminaires will be replaced during the initial inspection.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.27	Repair/ Replace Luminaire	Each

Payment is full compensation for field verifying existing conditions; for removing and properly disposing of the existing luminaires or fasteners; and for furnishing and installing the new luminaires or fasteners, including drilling tapping holes.

**42. Replace Truss Gusset Connection Bolt, Item SPV.0060.28.**

**A Description**

This special provision describes replacing the truss gusset connection bolts as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and as shown in the plans.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans. Field verify the size and diameter of existing bolts. Replace deteriorated bolts which cannot be properly tensioned. Follow the department's Form DT2322 pre-installation and installation procedures for replaced bolts. Do not install lock washers on new connections. Work shall not be completed above live traffic. Lane closures are to be utilized as necessary to complete the work.

**D Measurement**

The department will measure Replace Truss Gusset Connection Bolt as each individual connection bolt, 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.0060.28	Replace Truss Gusset Connection Bolt	Each

Payment is full compensation for replacing loose truss connection bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

**43. Secure/ Replace Handhole Cover, Item SPV.0060.29.**

**A Description**

This special provision describes replacing or securing handhole covers as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and 659 and as shown in the plans.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and 659 and as shown on plans. Replace missing handhole covers. Drill and tap bolt holes as required.

**D Measurement**

The department will measure Secure/ Replace Handhole Cover Bolt as each individual handhole cover, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.29	Secure/ Replace Handhole Cover	Each

Payment is full compensation for replacing or tightening handhole cover bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

**44. Foundation Epoxy Repair, Item SPV.0060.30.**

**A Description**

This special provision describes filling in concrete voids at anchor rod locations.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 415.2.6 and as shown in the plans.

**C Construction**

Clean the top surface concrete foundation by power washing to remove loose materials and debris. Care shall be take such at not to damage the anchor rod or base plate epoxy coating. After the top surface has been cleaned allow the concrete to dry for 24 hours before epoxy installation. Install epoxy to fill depressions at the anchor rod locations to provide positive drainage.

Work will include encasing the top of the foundation with epoxy at locations as indicated on the plans.

**D Measurement**

The department will measure Foundation Epoxy Repair as each individual foundation, 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.0060.30	Foundation Epoxy Repair	Each

Payment is full compensation for furnishing all materials and miscellaneous items to complete the repair as shown on the plans; and for fabricating, handling, transporting, installing.

**45. Replace Unistrut, Item SPV.0060.31.**

**A Description**

This special provision describes replacing the unistrut as shown on the plans, and as hereinafter provided.

**B Materials**

Field verify existing unistrut dimensions and material and replace in kind. Submit proposed new unistrut member properties to the engineer before installing.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641, state standard details, and as shown in the plans.

Remove and properly dispose of existing unistrut and associated hardware.

Tighten the bolts and nuts to the manufacturer's recommended torque value.

**D Measurement**

The department will measure Replace Unistrut as each individual Unistrut, 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.0060.31	Replace Unistrut	Each

Payment is full compensation for field verifying existing conditions; for removing and properly disposing of the existing unistrut and hardware; and for furnishing and installing the new unistrut, including hardware.



**46. Slotted Hole Repair On Sign Support Bracket, Item SPV.0060.32.**

**A Description**

This special provision describes repairing the slotted holes in vertical sign support brackets as shown in the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and as shown in the plans.

**C Construction**

Field verify the length of the aluminum plate needed for the existing aluminum I-beam with the slotted holes and field verify the U-bolt size and diameter. Remove all existing U-bolt connection and hardware. Install new stainless steel U-bolts, stainless steel bolts, nuts, washers and aluminum plates as shown on the plans. Repair work must be done on only one connection at a time.

**D Measurement**

The department will measure Slotted Hole Repair on Sign Support Bracket as each individual aluminum I-beam, 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.0060.32	Slotted Hole Repair on Sign Support Bracket	Each

Payment is full compensation for field verifying existing aluminum I-beam needing repair; for furnishing and installing all materials and miscellaneous items to complete all required repairs at each individual I-beam.

**47. Clean Nesting Debris, Item SPV.0060.33.**

**A Description**

This special provision describes removing nesting debris at the truss connections at the locations shown in the plans.

**B (Vacant)**

**C Construction**

Remove and properly dispose of all debris at the truss connections and elements. Ensure that the connections and truss elements are free of all debris.

**D Measurement**

The department will measure Clean Nesting Debris by each location, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.33	Clean Nesting Debris	Each

Payment is full compensation for removing all debris at connections and truss elements; for properly disposing of existing materials; for furnishing all materials and miscellaneous items to complete the repair; for handling, and transporting.

**48. Tighten Post to Chord Connection Bolt, Item SPV.0060.34.**

**A Description**

This special provision describes tightening the post to chord connection bolts as shown on the plans, and as hereinafter provided.

**B (Vacant)****C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans. This work will consist of re-tensioning all loose chord connection nuts to snug tight. Repair any damaged galvanized coating incidental to the re-tensioning process.

**D Measurement**

The department will measure Tighten Post to Chord Connection Bolt as each individual connection bolt, 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.0060.34	Tighten Post to Chord Connection Bolt	Each

Payment is full compensation for replacing loose chord connection bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

**49. Replace Post to Chord Connection Bolt, Item SPV.0060.35.****A Description**

This special provision describes replacing the post to chord connection bolts as shown on the plans, and as hereinafter provided.

**B Materials**

Furnish materials that are according to the pertinent provisions of standard spec 641 and as shown in the plans.

**C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 641 and as shown in the plans. Replace deteriorated bolts which cannot be properly tensioned. Field verify the size and diameter of existing bolts. Follow the department's Form DT2322 pre-installation and installation procedures for replaced bolts. Do not install lock washers on new connections. Work shall not be completed above live traffic. Lane closures are to be utilized as necessary to complete the work.

**D Measurement**

The department will measure Replace Post to Chord Connection Bolt as each individual connection bolt, 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.0060.35	Replace Post to Chord Connection Bolt	Each

Payment is full compensation for replacing loose connection bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting.

**50. Repair/Replace Concrete Barrier, Item SPV.0090.01.****A Description**

This special provision describes removing the portion of the deteriorated barrier to sound concrete in front of the sign foundation, installing tie bars and reinforcement steel and forming and placing barrier wall to match existing, and as hereinafter provided.

## **B Materials**

Furnish materials that are according to standard spec 416 and 603.

## **C Construction**

The existing barrier wall shall be carefully removed to avoid damage to the adjacent foundations, barriers, etc. and other nearby permanent fixtures. The removal area shall be defined with a ½-inch deep sawcut. The removal limits shall be defined so that all deficient concrete material is removed to sound concrete. The removal limits shall be approved by the engineer prior to demolition. Care shall be taken to protect traffic from flying debris during construction.

After demolition, install tie-bars into the sound concrete to project into the repair area. The tie bars shall be anchored into the existing concrete using epoxy adhesive conforming to 416.2.3.2. Tie bars shall be installed at a 1-ft max spacing. All reinforcement shall be installed to provide 2-inch minimum cover. All bars shall be installed as shown in the plans. Refer to SDD 14B22 sheet A for details. Use construction methods conforming to standard spec 603. Use forms for barrier transitions.

Damage to the existing concrete barrier, asphalt pavement and sign structure foundation, shall be restored to the approval of the engineer at the contractor's expense.

## **D Measurement**

The department will measure Repair/Replace Concrete Barrier by the linear foot, acceptably completed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Repair/Replace Concrete Barrier	LF

Payment is full compensation for replacing concrete barrier; for sawing, removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the replacement; and for handling, transporting, and erecting.

## **51. Barrier Removal and Retrofit, Item SPV.0090.02.**

### **A Description**

This special provision describes removing a portion of the existing concrete barrier at the of the sign foundation in addition to the location of the barrier transition, installing tie bars and reinforcement steel and forming and placing new foundation on transition barrier wall as shown on the plans, and as hereinafter provided.

### **B Materials**

Furnish materials that are according to standard spec 204 and 603.

### **C Construction**

This work includes removing the full depth of the concrete barrier wall to the extents noted on the plans it accommodate the transition barrier per SDD 14B35 and 14B39 and sawcutting along the toe in front of the barrier wall. Saw cut at existing joint or location where next available joint is greater than or equal to 15 feet away whichever is least from the location of the edge of the structure foundation.

The barrier wall shall be removed according to standard spec 204 and 690, care should be taken to avoid damage to the adjacent concrete barrier wall and base and any structures. Protect on-coming traffic from any potential of flying debris during barrier removal.

If sawcutting is necessary due to no construction joint within the requirements stated above, then according to standard spec 416, the contractor shall install tie bars into the existing concrete barrier base to extend into new barrier base. Drill holes into the edge of the existing concrete to the dimensions the plans show. Anchor the tie bars into the existing concrete with an epoxy conforming to standard spec 416.2.3.2 and install conforming to standard spec 416.3.4 except no bond breaker is required.

Contractor shall drill and install longitudinal bars into either sawcut face of the existing concrete barrier. Transverse bars shall be tied to longitudinal steel as shown in the plans. Refer to SDD 14B22 sheet A for details. Use construction methods conforming to standard spec 502. Use forms or engineer-approved slip form methods for barrier. Use forms for transitions.

While the concrete is still plastic, test the wall surfaces, except vertical surfaces on horizontal curves, for trueness with a 10-foot straightedge. Test the total surface area of the barrier top and face by holding the straightedge in successive positions parallel to the length of the barrier. Straightedge the barrier in successive stages of not more than 1/2 the length of the straightedge.

Immediately, fill any depressions or projections that deviate more than 3/8 inch in 10 feet with freshly mixed concrete or strike-off and refinish the surface.

Broom finish all exposed slip-formed surfaces. Except for footings, provide a sack rubbed finish on all exposed formed surfaces as specified in standard spec 502.3.7.5.

Damage to the existing concrete barrier, asphalt pavement shall be restored to the approval of the engineer at the contractor's expense.

#### **D Measurement**

The department will measure Barrier Removal and Retrofit by the linear foot, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Barrier Removal and Retrofit	LF

Payment is full compensation for replacing concrete barrier; for sawing, removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the replacement; and for handling, transporting, and erecting.

### **52. Removing Sign Bridge S-40-302 , Item SPV.0105.01; Removing Sign Bridge S-67-203, Item SPV.0105.02; Removing Sign Bridge S-67-300, Item SPV.0105.03.**

#### **A Description**

This special provision describes removing the sign panel, sign panel support I-beams, sign luminaire units, electrical conduits, miscellaneous electrical items, the sign bridge catwalk, the full span steel truss sign bridge, the bridge mounted steel sign structure, the single pole steel sign structure for two signs, the concrete footings, concrete drilled shafts, and all landscaping necessary to restore the affected site from construction activity, at the location shown on the plans, as directed by the engineer, and as hereinafter provided.

#### **B (Vacant)**

#### **C Construction**

Contractor is responsible for disconnecting power to the sign bridge prior to removing luminaire. Electrical power to the luminaires on the freeway and ramps must stay active throughout construction. Remove or abandon electrical branch circuits as shown on the lighting plans. All electrical parts attached to the sign structure will be considered scrap unless the contract includes pay items for salvaging or stockpiling selected electrical pieces.

Any erosion control necessary as directed by the engineer shall be installed per the requirements of standard spec 628.

Do not remove the existing sign bridge and signs until the new sign bridge and signs have been installed. Move Type I signs and move or install Type I and Type II signs to new sign bridge immediately following (within 12 hours) installation of the new structure.

Store new sign bridges offsite since there is not sufficient right-of-way on site outside the clear zone.

Remove the concrete footings and concrete drilled shafts according to standard spec 204. Concrete footing shall be removed to 2' below the existing ground. The reinforcement shall be cut off flush with the top of the concrete.

Properly dispose of all components including the truss, towers, catwalk, electrical conduits, miscellaneous electrical items, concrete footings, and drilled shafts off the project site.

Restore all areas disturbed by construction activities to the original grade lines with topsoil and seed and mulch the topsoil. Topsoil, seed, and mulch shall meet the requirements of standard spec 625, 630, and 627 respectively.

#### **D Measurement**

The department will measure Removing Sign Bridge (Number) as a single lump sum unit for each sign bridge, 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.0105.01	Removing Sign Bridge S-40-302	LS
SPV.0105.02	Removing Sign Bridge S-67-203	LS
SPV.0105.03	Removing Sign Bridge S-67-300	LS

Payment is full compensation for erosion control, disassembling and removing the sign bridge and the overhead sign support and all attached components, removing the concrete footings and drilled shafts, storing and protecting materials on the project site, returning salvaged materials to the department; properly disposing of materials not salvaged, and for restoring areas disturbed by construction activities.

### **53. Repair Galvanized Coating, Item SPV.0165.01.**

#### **A Description**

This special provision describes providing surface cleaning and painting the galvanized posts at locations specified in the plans, and as hereinafter provided.

#### **B Materials**

Supply specific product data sheets to the engineer prior to starting work. Material is to be approved by the engineer prior to being installed.

#### **C Construction**

Use construction methods that are according to the pertinent provisions of standard spec 635.3.5. Conform to the manufacturer's recommendations.

#### **D Measurement**

The department will measure Repair Galvanized Coating by the square foot, acceptably completed with a minimum quantity of 1 square foot at each repair location.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Repair Galvanized Coating	SF

Payment is full compensation for cleaning; for protecting traffic and property; for furnishing all materials and miscellaneous items to complete the replacement; for handling, transporting, and erecting.

## **ADDITIONAL SPECIAL PROVISION 4**

### **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 may also withhold routine 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.

### **Release of Routine Retainage**

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

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 and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

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.

## ADDITIONAL SPECIAL PROVISION 6

### ASP 6 - Modifications to the standard specifications

*Make the following revisions to the standard specifications:*

#### 104.10.1 General

*Replace paragraph one with the following effective with the December 2017 letting:*

- (1) Subsection 104.10 specifies a 2-step process for contractors to follow in submitting a cost reduction incentive (CRI) for modifying the contract in order to reduce direct construction costs computed at contract bid prices. The initial submittal is referred to as a CRI concept and the second submittal is a CRI proposal. The contractor and the department will equally share all savings generated to the contract due to a CRI as specified in 104.10.4.2(1). The department encourages the contractor to submit CRI concepts.

#### 104.10.4.2 Payment for the CRI Work

*Replace paragraph one with the following effective with the December 2017 letting:*

- (1) The department will pay for completed CRI work as specified for progress payments under 109.6. The department will pay for CRI's under the Cost Reduction Incentive administrative item. When all CRI costs are determined, the department will execute a contract change order that does the following:
1. Adjusts the contract time, interim completion dates, or both.
  2. Pays the contractor for the unpaid balance of the CRI work.
  3. Pays the contractor 50 percent of the net savings resulting from the CRI, calculated as follows:

$$NS = CW - CRW - CC - DC$$

Where:

**NS** = Net Savings

**CW** = The cost of the work required by the original contract that is revised by the CRI. CW is computed at contract bid prices if applicable.<sup>[1]</sup>

**CRW** = The cost of the revised work, computed at contract bid prices if applicable.<sup>[1]</sup>

**CC** = The contractor's cost of developing the CRI proposal.

**DC** = The department's cost for investigating, evaluating, and implementing the CRI proposal.

<sup>[1]</sup> The department may adjust contract bid prices that, in the engineer's judgement, do not represent the fair value of the work deleted or proposed.

#### 108.11 Liquidated Damages

*Replace paragraphs two and three with the following effective with the December 2017 letting:*

- (2) This deducted sum is not a penalty but is a fixed, agreed, liquidated damage due the department from the contractor for the added cost of engineering and supervision resulting from the contractor's failure to complete the work within the contract time.
- (3) Unless enhanced in the special provisions, the department will assess the following daily liquidated damages

LIQUIDATED DAMAGES			
ORIGINAL CONTRACT AMOUNT		DAILY CHARGE	
FROM MORE THAN	TO AND INCLUDING	CALENDAR DAY	WORKING DAY
\$0	\$250,000	\$850	\$1700
\$250,000	\$500,000	\$815	\$1630
\$500,000	\$1,000,000	\$1250	\$2500
\$1,000,000	\$2,000,000	\$1540	\$3080
\$2,000,000	—	\$2070	\$4140

---

**203.3.2.2 Removal Operations**

*Replace the entire text with the following effective with the December 2017 letting:*

**203.3.2.2.1 General**

- (1) Except as specified below for closing culverts, remove the entire top slab of box culverts and the entire superstructure of other culverts and bridges designated for removal. Completely remove existing piles, cribs, or other timber construction within the limits of new embankments, or remove these structures to an elevation at least 2 feet below finished ground line. Remove sidewalls or substructure units in water to an elevation no higher than the elevation of the natural stream or lake bed, or, if grading the channel is required under the contract or the plans, to the proposed finished grade of the stream or lake bed. Remove sidewalls or substructure units not in water down to at least 2 feet below natural or finished ground line.
- (2) If extending or incorporating existing culverts and bridges in the new work, remove only those parts of the existing structure as necessary to provide a proper connection to the new work. Saw, chip, or trim the connecting edges to the required lines and grades without weakening or damaging the remaining part of the structure. During concrete removal, do not damage reinforcing bars left in place as dowels or ties incorporated into the new work.
- (3) Remove pipe culverts designated for salvage in a way that prevents damage to the culverts.
- (4) Dismantle steel structures or parts of steel structures designated for salvage in a way that avoids damage to the members. If the contract specifies removing the structure in a way that leaves it in a condition suitable for re-erection, matchmark members with durable white paint before dismantling. Mark pins, bolts, nuts, loose plates, etc., similarly to indicate their proper location. Paint pins, bolts, pinholes, and machined surfaces with a department-approved rust preventative. Securely wire loose parts to adjacent members, or label and pack them in boxes.
- (5) Remove timber structures or parts of timber structures designated for salvage in a way that prevents damage to the members.
- (6) If the engineer approves, the contractor may temporarily use materials designated for salvage in falsework used to construct new work. Do not damage or reduce the value of those materials through temporary use.

**203.3.2.2.2 Deck Removal**

- (1) Protect the work as specified in 107.14 during deck removal. Minimize debris falling onto water surfaces and wetlands as the contract specifies in 107.18 or in the special provisions. Also, minimize debris falling on the ground and roadway.
- (2) Do not damage existing bar steel reinforcement, girders, or other components that will be incorporated in new work. Remove decks on prestressed concrete girders using a hydraulic shear or other engineer-approved equipment. Thoroughly clean, realign, and retie reinforcement as necessary.
- (3) After deck removal is complete, notify the engineer to request a damage survey. Point out damage to the engineer. Allow one business day for the engineer to complete the damage survey. If damage is identified, the department will determine if repairs or girder restoration will be allowed.
- (4) If the department allows girder restoration, have a professional engineer registered in the State of Wisconsin analyze the effect of the damage to the bridge, make recommendations, and prepare signed and sealed computations and structural details required to restore girders to their previous structural capacity. Submit the restoration proposal, including analysis and structural details, to the department and design engineer of record. The department will accept or reject the restoration proposal within 3 business days. Do not begin restoration work until the department allows in writing.
- (5) The engineer will not extend contract time to assess or remediate contractor caused damage.

---

**203.5.1 General**

*Replace paragraph two with the following effective with the December 2017 letting:*

- (2) Payment is full compensation for breaking down and removing; costs associated with contractor-caused damage; required salvaging, storing, and disposing of materials; and, unless the contract specifies granular backfill, for backfilling.



---

**415.2.3 Expansion Joint Filler**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Furnish expansion joint filler conforming to AASHTO M153, AASHTO M213, or ASTM D8139 in lengths equal to the pavement lane width and of the thickness and height the plans show. Where dowel bars are required, use filler with factory-punched holes at the dowel bar locations and with a diameter not greater than 1/8 inch larger than the nominal dowel bar diameter.
- 

**415.3.20 Filling Joints**

Replace paragraph two with the following effective with the December 2017 letting:

- (2) Clean joints of laitance, curing compound, and other contaminants before filling. Saw construction joints at least 3/4 inches deep before filling. Sawing is not required for tooled joints in curb and gutter. Sandblast or waterblast exposed joint faces using multiple passes as required to clean joint surfaces of material that might prevent bonding. Blow clean and dry with oil-free compressed air immediately before filling.
- 

**415.5.1 General**

Replace paragraph six with the following effective with the December 2017 letting:

- (6) Payment for Concrete Pavement Joint Filling is full compensation for filling concrete pavement joints; filling adjacent curb and gutter joints; and for sawing.
- 

**440.3.4.2 Contractor Testing**

Replace paragraph two with the following effective with the December 2017 letting:

- (2) Coordinate with the engineer at least 24 hours before making profile runs for acceptance unless the engineer approves otherwise. The department may require testing to accommodate staged construction or if corrective action is required.
- 

**455.5.3 Tack Coat**

Replace paragraph two with the following effective with the December 2017 letting:

- (2) The department will adjust pay for Tack Coat, under the Nonconforming Tack Coat administrative item, for nonconforming material the engineer allows to remain in place at a maximum of 75 percent of the contract unit price.

**460.2.7 HMA Mixture Design**

*Replace paragraph one with the following effective with the December 2017 letting:*

- (1) For each HMA mixture type used under the contract, develop and submit an asphaltic mixture design according to CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to the designer according to CMM 8-66.

**TABLE 460-2 MIXTURE REQUIREMENTS**

Mixture type	LT	MT	HT	SMA
ESALs x 10 <sup>6</sup> (20 yr design life)	<2.0	2 - <8	>8	—
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	40
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821) (one face/2 face, % by count)	65/—	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40	43	45	45
Sand Equivalency (AASHTO T176, min)	40	40	45	50
Gyratory Compaction				
Gyrations for N <sub>ini</sub>	6	7	8	8
Gyrations for N <sub>des</sub>	40	75	100	65
Gyrations for N <sub>max</sub>	60	115	160	160
Air Voids, %V <sub>a</sub> (%G <sub>mm</sub> N <sub>des</sub> )	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)
% G <sub>mm</sub> N <sub>ini</sub>	<= 91.5 <sup>[1]</sup>	<= 89.0 <sup>[1]</sup>	<= 89.0	—
% G <sub>mm</sub> N <sub>max</sub>	<= 98.0	<= 98.0	<= 98.0	—
Dust to Binder Ratio <sup>[2]</sup> (% passing 0.075/P <sub>be</sub> )	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80 <sup>[4]</sup> [5]	65 - 75 <sup>[3]</sup> [5]	65 - 75 <sup>[3]</sup> [5]	70 - 80
Tensile Strength Ratio (TSR) (AASHTO T283) <sup>[6]</sup> [7]				
no antistripping additive	0.75 min	0.75 min	0.75 min	0.75 min
with antistripping additive	0.80 min	0.80 min	0.80 min	0.80 min
Draindown (AASHTO T305) (%)	—	—	—	0.30

<sup>[1]</sup> The percent maximum density at initial compaction is only a guideline.

<sup>[2]</sup> For a gradation that passes below the boundaries of the caution zone (ref. AASHTO M323), the dust to binder ratio limits are 0.6 - 1.6.

<sup>[3]</sup> For No. 5 (9.5mm) and No. 4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76 percent.

<sup>[4]</sup> For No. 2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

<sup>[5]</sup> For No. 1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

<sup>[6]</sup> WisDOT eliminates freeze-thaw conditioning cycles from the TSR test procedure.

<sup>[7]</sup> Run TSR at asphalt content corresponding to 3.0% air void regressed design using distilled water for testing.

---

**460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater**

Replace paragraph six with the following:

- (6) Conduct TSR tests during mixture production according to CMM 8-36.6.14. Test each full 50,000 ton production increment, or fraction of an increment, after the first 5000 tons of production. Perform required increment testing in the first week of production of that increment. If production TSR values are below the limit specified in CMM 8-36.6.14, notify the engineer. The engineer and contractor will jointly determine a corrective action.
- 

**502.2.7 Preformed Joint Filler**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use preformed joint filler conforming to AASHTO M153, AASHTO M213, or ASTM D8139.
- 

**502.3.7.8 Floors**

Replace paragraph fourteen with the following effective with the December 2017 letting:

- (14) Unless specified otherwise, transversely tine finish the floors of structures with approach pavements designed for speeds of 40 mph or greater as specified in 415.3.8.3, except make the tining 1/8 inch in depth and do not perform tining within 12 inches of gutters. The contractor may apply a broom finish, described below, instead of the artificial turf drag finish required before tining. The contractor may perform tining manually, if it obtains a finish satisfactory to the engineer. Perform tining within 20 degrees of the centerline of bearing of the substructure units on bridge decks having skew angles of 20 degrees or greater.
- 

**505.2.6 Dowel Bars and Tie Bars**

Replace the entire text with the following effective with the March 2018 letting:

**505.2.6.1 General**

- (1) Furnish bars coated in a plant certified by the Concrete Reinforcing Steel Institute. For dowel bars and straight tie bars, there is no requirement for bend tests. Ensure that the bars are the specified diameter and length the plans show.
- (2) The contractor need not coat or patch sawed ends, sheared ends, cut ends, ends left bare during the coating process, or ends with damaged coating.
- (3) The contractor need not repair circumferential coating damage from shipping, handling, or installation, if the following conditions are met:
  1. The damaged area is 1/4 inch square or smaller.
  2. The total damaged area in any one-foot length does not exceed 2 percent of the circumferential area in that length.
- (4) Repair areas of damaged circumferential coating larger than 1/4 inch square. Reject bars with total damage greater than 2 percent of the bar's circumferential area.

**505.2.6.2 Dowel Bars****505.2.6.2.1 General**

- (1) Ensure that the bars are straight, round, smooth, and free from burrs or other deformations detrimental to the free movement of the bar in the concrete.
- (2) Saw bars to the required length. For solid bars, the department will allow shearing if no damage occurs to the coating and shearing distortions do not exceed the following:
  1. No distorted diameter is more than 0.04 inches greater than the true diameter.
  2. No distortion extends more than 0.40 inches from the sheared end.
- (3) Apply a surface treatment to loose dowels, or furnish manufacturer-treated bars in dowel bar baskets, capable of preventing bond between the epoxy-coated bars and the concrete. Apply field surface treatments when loading bars in the dowel bar magazine.

**505.2.6.2.2 Solid Dowel Bars**

- (1) Furnish coated bars conforming to AASHTO M31 grade 40 or 60. Alternatively the contractor may furnish dowel bars conforming to AASHTO M227 grade 70-80. Coat with a thermosetting epoxy conforming to AASHTO M254, type B.

**505.2.6.2.3 Tubular Dowel Bars**

- (1) Furnish welded steel tubular bars conforming to ASTM A513 fabricated from plain carbon steel with a minimum tensile yield strength of 60 ksi and sized as follows:

SOLID BAR SPECIFIED DIAMETER	MINIMUM REQUIRED OUTSIDE DIAMETER	MINIMUM BASE METAL WALL THICKNESS
1 1/4-inch	1 5/16 inches	0.120 inch
1 1/2-inch	1 5/8 inches	0.120 inch

- (2) Cap bar ends to prevent intrusion of concrete or other materials. Ensure that tubing is galvanized on the exterior and interior according to ASTM A653 with a G40 zinc coating and apply 7-13 mils of epoxy to the galvanized exterior according to AASHTO M254, Type B.

**505.2.6.2.4 High Performance Dowel Bars**

- (1) As an alternate the contractor may furnish high performance dowel bars from the department's APL.

**505.2.6.3 Tie Bars**

- (1) Furnish coated bars conforming to AASHTO M31 grade 40 or 60. Coat tie bars as specified in 505.2.4 for coated high-strength steel reinforcement. Ensure that the tie bars are the shape the plans show.
- (2) Repair, with compatible coating material, the bend location of field-straightened coated tie bars.

**614.2.1 General**

Add the following as paragraph ten effective with the December 2017 letting:

- (10) Furnish guardrail reflectors from the department's APL.

**614.3.2.1 Installing Posts**

Add the following as paragraph five effective with the December 2017 letting:

- (5) Provide post-mounted reflectors every 100 feet with one at the beginning and end of each run and a minimum of three reflectors per run.

**614.5 Payment**

Replace paragraph four with the following effective with the December 2017 letting:

- (4) Payment for the Steel Thrie Beam, Steel Plate Beam Guard, Guardrail Stiffened, MGS Guardrail, Short Radius, and various transition bid items is full compensation for providing guardrail and transitions including post-mounted reflectors; for repairing damaged zinc coatings; and for excavating, backfilling, and disposing of surplus material.

**641.2.9 Overhead Sign Supports**

Replace paragraph three with the following effective with the December 2017 letting:

- (3) Provide steel pole shafts, mast arms or trusses, and luminaire arms zinc coated according to ASTM A123. The contractor may provide either straight or tapered pole and arm shafts unless the plans specify otherwise. Provide bolts and other hardware conforming to 641.2.2.

**642.2.2.1 General**

Replace the entire text with the following effective with the December 2017 letting:

- (1) Provide each field office with two rooms, separated by an interior door with a padlock. Ensure that each room has a separate exterior door and its own air conditioner. Locate the office where a quality internet connection can be achieved.
- (2) Provide long distance telephone service via a land line for exclusive department use that has the following:
  - Two programmable touch-tone phones, one of which is cordless. Ensure that phone operations will not interfere with other telecommunications equipment.
  - Voice mail service or an answering machine.
- (3) Provide high-speed internet service for exclusive department use via cable or DSL connection with a modem/router and capable of supporting cloud enabled file sharing, voice over internet protocol (VoIP), video conferencing, and web based applications. Ensure that system meets the following:
  - Includes a wireless network for the field office.
  - Can accommodate IPSec based VPN products.
  - Has a bandwidth range as follows:
    - Field office with 1-5 staff: A minimum connection speed of 5 Mbps download and 1 Mbps upload. If a cable or DSL option is not available the contractor may provide a personal hotspot using cell phone tethering or other device able to achieve the specified minimum speeds inside the field office.
    - Field office with 6 or more staff: A minimum connection speed of 10 Mbps + 1/2 Mbps per user download and 5 Mbps upload.
    - Projects over 500 million dollars: A minimum connection speed of 20 Mbps + 1/2 Mbps per user download and 10 Mbps upload. Coordinate network setup at the leased office with the WisDOT network team.
- (4) Provide and maintain a Windows 7 and Windows 10 compliant multi-function device with copy, print, and scan capabilities that can accommodate both 8 1/2" x 11" and 11" x 17" paper. Replenish paper, toner cartridges, and other supplies before fully expended. Ensure that department staff can connect to the device either directly or through the field office wireless network.
- (5) Equip with a drafting table with a drafter's stool. Except as specified in 642.2.2.4, provide 2 ergonomically correct office chairs in working condition with, at a minimum, the following:
  1. Five-legged base with casters.
  2. Seat adjustable from 15 to 22 inches from the floor with a seamless waterfall, rounded, front edge.
  3. High backrest with no arms or adjustable arms.

**643.3.1 General**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Provide and maintain traffic control devices located where the plans show or engineer directs to maintain a safe work zone throughout the contract duration. Relocate as required to accommodate changing work operations. When not in use, place devices away from traffic outside of paved and gravel shoulder surfaces. Where there is barrier on the shoulder, the contractor may place devices not in use on the shoulder as close as possible to the barrier and delineated with drums. Lay signs and supports flat on the grade with uprights oriented parallel to and downstream from traffic. Do not stack devices or equipment. Promptly remove temporary devices from within the project limits as follows:
  - That will not be used within 14 consecutive calendar days.
  - Within 5 business days of substantial completion unless the engineer allows otherwise.

**645.2.2.2 Geotextile, Type SAS (Subgrade Aggregate Separation)**

*Replace paragraph one with the following effective with the December 2017 letting:*

- (1) Furnish fabric conforming to the following physical properties:

TEST	METHOD	VALUE <sup>[1]</sup>
Minimum grab tensile strength	ASTM D4632	170 lb
Minimum puncture strength	ASTM D6241	350 lb
Maximum apparent opening size	ASTM D4751	No. 70
Minimum permittivity	ASTM D4491	0.35 s <sup>-1</sup>

<sup>[1]</sup> All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

**645.2.2.4 Geotextile, Type DF (Drainage Filtration)**

*Replace paragraph one with the following effective with the December 2017 letting:*

- (1) Furnish fabric conforming with the physical requirements of either schedule A, schedule B, or schedule C as the contract specifies.

SCHEDULE A TEST	METHOD	VALUE <sup>[1]</sup>
Minimum grab tensile strength	ASTM D4632	110 lb
Minimum puncture strength	ASTM D6241	200 lb
Minimum apparent breaking elongation	ASTM D4632	30%
Maximum apparent opening size	ASTM D4751	300 µm
Minimum permittivity	ASTM D4491	0.70 s <sup>-1</sup>

SCHEDULE B TEST	METHOD	VALUE <sup>[1]</sup>
Minimum grab tensile strength	ASTM D4632	180 lb
Minimum puncture strength	ASTM D6241	350 lb
Minimum apparent breaking elongation	ASTM D4632	30%
Maximum apparent opening size	ASTM D4751	300 µm
Minimum permittivity	ASTM D4491	1.35 s <sup>-1</sup>

SCHEDULE C TEST	METHOD	VALUE <sup>[1]</sup>
Minimum grab tensile strength	ASTM D4632	180 lb
Minimum puncture strength	ASTM D6241	350 lb
Minimum apparent breaking elongation	ASTM D4632	15%
Maximum apparent opening size	ASTM D4751	600 µm
Minimum permittivity	ASTM D4491	1.00 s <sup>-1</sup>

<sup>[1]</sup> All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

**645.2.2.6 Geotextile, Type R (Riprap)**

*Replace paragraph one with the following effective with the December 2017 letting:*

- (1) Use fabric conforming to the following physical properties:

TEST	METHOD	VALUE <sup>[1]</sup>
Minimum grab tensile strength	ASTM D4632	205 lb
Minimum puncture strength	ASTM D6241	400 lb
Minimum apparent breaking elongation	ASTM D4632	15%
Maximum apparent opening size	ASTM D4751	No. 30
Minimum permittivity	ASTM D4491	0.12 s <sup>-1</sup>

<sup>[1]</sup> All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

**645.2.2.7 Geotextile, Type HR (Heavy Riprap)**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use fabric conforming to the following physical properties:

TEST	METHOD	VALUE <sup>[1]</sup>
Minimum grab tensile strength, lb	ASTM D4632	305 lb
Minimum puncture strength, lb	ASTM D6241	500 lb
Minimum apparent breaking elongation, %	ASTM D4632	15%
Maximum apparent opening size	ASTM D4751	No. 30
Minimum permittivity	ASTM D4491	0.40, s <sup>-1</sup>

<sup>[1]</sup> All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

**645.2.2.8 Geotextile, Type C (Modified SAS)**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use fabric conforming to the following physical properties:

TEST	METHOD	VALUE <sup>[1]</sup>
Grab tensile strength, lb	ASTM D4632	205 lb
Puncture strength, lb	ASTM D6241	350 lb
Maximum apparent opening size	ASTM D4751	No. 50
Minimum permittivity	ASTM D4491	0.12 s <sup>-1</sup>

<sup>[1]</sup> All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

**646.3.1.1 General Marking**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Prepare the surface and apply marking as the manufacturer specifies. Provide manufacturer specifications as the engineer requests. Do not mark over a marking product with less adherence or over chipped or peeled marking. Do not remove polymer overlay materials in areas receiving pavement marking. Use only epoxy pavement marking where the contract requires marking placed on polymer overlays.

Replace paragraph five with the following effective with the December 2017 letting:

- (5) After the marking can sustain exposure to traffic, re-apply clear protective surface treatment conforming to 502.2.11 where removed from structures during marking surface preparation. Seal exposed concrete including grooves for tape. Cover marking during resealing with a system that will not degrade the marking's retroreflectivity when removed. Uncover marking before opening to traffic.

**701.3 Contractor Testing**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Perform contract required QC tests for samples randomly located according to CMM 8-30. Also perform other tests as necessary to control production and construction processes, and additional testing enumerated in the contractor's quality control plan or that the engineer directs. Use test methods as follows:

**TABLE 701-2 TESTING STANDARDS**

TEST	TEST STANDARD
Washed P 200 analysis	AASHTO T11 <sup>[1]</sup>
Sieve analysis of fine and coarse aggregate	AASHTO T27 <sup>[1]</sup>
Aggregate moisture	AASHTO T255 <sup>[1]</sup>
Sampling freshly mixed concrete	AASHTO R60
Air content of fresh concrete	AASHTO T152 <sup>[2]</sup>
Air void system of fresh concrete	AASHTO Provisional Standard TP118
Concrete slump	AASHTO T119 <sup>[2]</sup>
Concrete temperature	ASTM C1064
Concrete compressive strength	AASHTO T22
Making and curing concrete cylinders	AASHTO T23
Standard moist curing for concrete cylinders	AASHTO M201

<sup>[1]</sup> As modified in CMM 8-60.

<sup>[2]</sup> As modified in CMM 8-70.

**715.2.3.1 Pavements**

Add the following as paragraph six effective with the December 2017 letting:

- (6) For new lab-qualified mixes, test the air void system of the proposed concrete mix conforming to AASHTO provisional standard TP 118. Include the SAM number as a part of the mix design submittal.

**715.3.1.1 General**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Provide slump, air content, concrete temperature and compressive strength test results as specified in 710.5. Provide a battery of QC tests, consisting of results for each specified property, using a single sample randomly located within each subplot. Cast three cylinders for strength evaluation. For pavement concrete, also test the air void system conforming to AASHTO provisional standard TP118 at least once per lot and enter the SAM number in the MRS for information only.

**715.3.1.3 Department Verification Testing**

Replace paragraph one with the following effective with the December 2017 letting:

- (1) The department will perform verification testing as specified in 701.4.2 with additional testing as required to obtain at least 1 verification test per lot for air content, slump, temperature, and compressive strength.



---

## Errata

---

*Make the following corrections to the standard specifications:*

---

### 106.3.3.1 General

Correct errata by changing "acceptance" to "approval".

- (1) For manufactured products or assemblies, the department may base approval on a product certification or require both a product certification and production plant certification.
- 

### 205.3.1 General

Correct errata by replacing paragraphs three and four with the following to reflect current practice to incorporate suitable materials.

- (3) Replace unsuitable material with satisfactory material. Trim and finish the roadway. Maintain the work done under 205 in a finished condition until acceptance.
- 

### 305.1 Description

Correct errata to clarify that the contractor may use more than one material under a single contract.

- (1) This section describes constructing a dense graded base using one or more of the following aggregates at the contractor's option:

Crushed stone	Reclaimed asphalt
Crushed gravel	Reprocessed material
Crushed concrete	Blended material

---

### 521.2 Materials

Correct errata by deleting bullet three and including aluminum coated pipe in bullet one.

- (1) Furnish corrugated steel pipe and steel apron end walls as follows:
- Corrugated steel culvert pipe, steel apron endwalls, aluminum coated corrugated steel culvert pipe, and other components conforming to AASHTO M36.
  - Polymer coated corrugated steel culvert pipe and pipe arch fabricated from zinc coated sheet steel conforming to AASHTO M218. Before fabrication, coat the sheets on both sides with polymer protective coating grade 250/250 according to AASHTO M246. Fabricate the pipe according to AASHTO M245.
- 

### 614.3.2.2 Installing Rail

Correct errata for splice location and allow punching or drilling holes and slots.

- (1) Install rail with lap splices in the direction of traffic. Ensure that the number and dimensions of holes and bolts conforms to the plan details for new splices. Place the round head of bolts on the traffic side.
- (2) Cut rails to length by shearing or sawing; do not use cutting torches. Drill or punch bolt holes and slots; ensure that they are burr free. After installation, cut anchor bolts that project more than one inch from the nut to 1/2 inch from the nut; deburr the threaded end of cut bolts.
- 

### 618.1 Description

Correct errata by deleting designated detours from the scope of Maintenance and Repair of Haul Roads.

- (1) This section describes maintaining, repairing, and restoring all public roads, streets, drainage facilities, and other components used for hauling by contractor, subcontractor, or supplier to support work for a department contract to its pre-haul condition. Public roads and streets shall be limited to those not a part of the State Trunk Highway System and from now on called haul roads.

**643.3.5.2 Cellular Communication**

Correct errata by changing State Traffic Operations Center to Traffic Management Center.

- (2) A minimum of 14 days before deployment, demonstrate to the department that the cellular modem is capable of communications with the Traffic Management Center. If remote communications are interrupted or temporarily unavailable, the department will notify the contractor to change messages manually. Update messages within 2 hours of receiving notification.

**646.3.1.2 Liquid Marking**

Correct errata by changing "epoxy overlays" to "polymer overlays".

- (5) Apply liquid marking and glass beads across the line at or exceeding the following:

LIQUID MARKING	PAVEMENT TYPE	THICKNESS (mils)	BEAD APPLICATION (pounds per gallon)
Paint	all	16	8-10
Epoxy	SMA, seal coats, and polymer overlays	25	25
Epoxy	all other	20	22.5

**654.5 Payment**

Correct errata to clarify that contractor-provided anchor rods and associated hardware are incidental.

- (2) Payment for the Bases bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor rods, nuts, and washers; for bar steel reinforcement; and for excavating, backfilling, and disposing of surplus materials.

### ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1<sup>st</sup> 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. 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).
6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.

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](mailto: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:

<http://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payments-sublets-manual.pdf>

**ADDITIONAL SPECIAL PROVISION 9-S**  
**Electronic Labor Data Submittal for**  
***State Funded Only Projects***

(1) Use the Workforce Utilization Report Microsoft Excel spread sheet, or other compatible spread sheet (i.e., Google Spread Sheet), to report required labor data. Details and the Excel spreadsheet are available online through the department's highway construction contract information (HCCI) site on the Labor, Wages, and EEO Information page at:

<http://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>

(2) Ensure that all tiers of subcontractors, including all trucking firms, submit their labor data electronically via the Excel spread sheet to the prime contractor within 14 calendar days of the end of each quarter (quarters are defined as January-March, April-June, July-September, and October-December). The prime contractor shall coordinate collection of their subcontractors' spread sheets and forward them to the Regional Labor Compliance Specialist within 21 calendar days of the end of each quarter. Every company or contractor providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected companies or contractors aware of the requirements under this special provision and arrange for them to receive an Excel spreadsheet as part of their subcontract documents.

(4) The department will reject all paper submittals of information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

## **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).

**Effective August 2015 letting**

### **BUY AMERICA PROVISION**

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials 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 this 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. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<http://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<http://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc>



**March 2017**

**NOTICE TO BIDDERS  
WAGE RATE DECISION**

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.



## Proposal Schedule of Items

Page 1 of 5

Proposal ID: 20180612004 Project(s): 1000-20-70

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	204.9060.S Removing (item description) 01. Sign Lighting	1.000 EACH	_____.	_____.
0004	204.9090.S Removing (item description) 01. Electrical Wires From Conduit	134.000 LF	_____.	_____.
0006	603.8000 Concrete Barrier Temporary Precast Delivered	350.000 LF	_____.	_____.
0008	603.8125 Concrete Barrier Temporary Precast Installed	350.000 LF	_____.	_____.
0010	614.0905 Crash Cushions Temporary	2.000 EACH	_____.	_____.
0012	619.1000 Mobilization	1.000 EACH	_____.	_____.
0014	636.0100 Sign Supports Concrete Masonry	43.000 CY	_____.	_____.
0016	636.1000 Sign Supports Steel Reinforcement HS	1,290.000 LB	_____.	_____.
0018	636.1500 Sign Supports Steel Coated Reinforcement HS	2,740.000 LB	_____.	_____.
0020	637.1220 Signs Type I Reflective SH	527.000 SF	_____.	_____.
0022	637.2220 Signs Type II Reflective SH	183.600 SF	_____.	_____.
0024	638.2101 Moving Signs Type I	2.000 EACH	_____.	_____.
0026	638.2601 Removing Signs Type I	6.000 EACH	_____.	_____.
0028	641.0600 Sign Bridge Single Pole Sign Support Two Signs (structure) 01. S-67-321	LS	LUMP SUM	_____.
0030	641.1200 Sign Bridge Cantilevered (structure) 02. S-67-320	LS	LUMP SUM	_____.



## Proposal Schedule of Items

Page 2 of 5

Proposal ID: 20180612004 Project(s): 1000-20-70

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	641.6600 Sign Bridge (structure) 03. S-40-874	LS	LUMP SUM	_____.
0034	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0036	650.6500 Construction Staking Structure Layout (structure) 01. S-67-321	LS	LUMP SUM	_____.
0038	650.6500 Construction Staking Structure Layout (structure) 02. S-67-320	LS	LUMP SUM	_____.
0040	650.6500 Construction Staking Structure Layout (structure) 03. S-40-874	LS	LUMP SUM	_____.
0042	SPV.0060 Special 01. Replace Rodent Screen	17.000 EACH	_____.	_____.
0044	SPV.0060 Special 02. Tension Anchor Rods	67.000 EACH	_____.	_____.
0046	SPV.0060 Special 03. Repair Foundation	2.000 EACH	_____.	_____.
0048	SPV.0060 Special 04. Secure/Replace Chord CAP	35.000 EACH	_____.	_____.
0050	SPV.0060 Special 05. Install Conduit Plug	3.000 EACH	_____.	_____.
0052	SPV.0060 Special 06. Replace Safety Chain	5.000 EACH	_____.	_____.
0054	SPV.0060 Special 07. Replace Handrail Hinge Pin	6.000 EACH	_____.	_____.
0056	SPV.0060 Special 08. Replace U-Bolts	14.000 EACH	_____.	_____.
0058	SPV.0060 Special 09. Secure/Replace Vertical Post Cap	1.000 EACH	_____.	_____.
0060	SPV.0060 Special 10. Remove Debris and Regrade	4.000 EACH	_____.	_____.
0062	SPV.0060 Special 11. Install Sign Panel Connector	176.000 EACH	_____.	_____.



## Proposal Schedule of Items

Page 3 of 5

Proposal ID: 20180612004 Project(s): 1000-20-70

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	SPV.0060 Special 12. Replace Post Mounted Signal	2.000 EACH	_____.	_____.
0066	SPV.0060 Special 13. Tension Leveling Nut	3.000 EACH	_____.	_____.
0068	SPV.0060 Special 14. Secure Signs Type II	6.000 EACH	_____.	_____.
0070	SPV.0060 Special 15. Replace Signal Mount Socket Connection	1.000 EACH	_____.	_____.
0072	SPV.0060 Special 16. Replace Walkway Connection Clip	1.000 EACH	_____.	_____.
0074	SPV.0060 Special 17. Tighten VMS Connection	1.000 EACH	_____.	_____.
0076	SPV.0060 Special 18. Replace Sign Connection Assembly	8.000 EACH	_____.	_____.
0078	SPV.0060 Special 19. Secure Luminaire Cover	5.000 EACH	_____.	_____.
0080	SPV.0060 Special 20. Remove Vegetation	1.000 EACH	_____.	_____.
0082	SPV.0060 Special 21. Remove Catwalk and L-Brackets	2.000 EACH	_____.	_____.
0084	SPV.0060 Special 22. Replace Vibration Dampener	1.000 EACH	_____.	_____.
0086	SPV.0060 Special 23. Clean and Paint Anchor Rod	9.000 EACH	_____.	_____.
0088	SPV.0060 Special 24. Install ID Plaque	6.000 EACH	_____.	_____.
0090	SPV.0060 Special 25. Replace Vertical Sign Support	17.000 EACH	_____.	_____.
0092	SPV.0060 Special 26. Replace Splice Connection Bolts	14.000 EACH	_____.	_____.



## Proposal Schedule of Items

Page 4 of 5

Proposal ID: 20180612004 Project(s): 1000-20-70

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0094	SPV.0060 Special 27. Repair/Replace Luminaire	5.000 EACH	_____.	_____.
0096	SPV.0060 Special 28. Replace Truss Gusset Connection Bolt	2.000 EACH	_____.	_____.
0098	SPV.0060 Special 29. Secure/Replace Handhole Cover	7.000 EACH	_____.	_____.
0100	SPV.0060 Special 30. Foundation Epoxy Repair	6.000 EACH	_____.	_____.
0102	SPV.0060 Special 31. Replace Unistrut	2.000 EACH	_____.	_____.
0104	SPV.0060 Special 32. Slotted Hole Repair on Sign Support Bracket	52.000 EACH	_____.	_____.
0106	SPV.0060 Special 33. Clean Nesting Debris	8.000 EACH	_____.	_____.
0108	SPV.0060 Special 34. Tighten Post to Chord Connection Bolt	15.000 EACH	_____.	_____.
0110	SPV.0060 Special 35. Replace Post to Chord Connection Bolt	38.000 EACH	_____.	_____.
0112	SPV.0090 Special 01. Repair/Replace Concrete Barrier	12.000 LF	_____.	_____.
0114	SPV.0090 Special 02. Barrier Removal and Retrofit	78.000 LF	_____.	_____.
0116	SPV.0105 Special 01. Removing Sign Bridge S-40-302	LS	LUMP SUM	_____.
0118	SPV.0105 Special 02. Removing Sign Bridge S-67-203	LS	LUMP SUM	_____.
0120	SPV.0105 Special 03. Removing Sign Bridge S-67-300	LS	LUMP SUM	_____.



## Proposal Schedule of Items

Page 5 of 5

Proposal ID: 20180612004 Project(s): 1000-20-70

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0122	SPV.0165	16.000		
	Special 01. Repair Galvanized Coating	SF	_____.	_____.
	Section: 0001		Total:	_____.
			Total Bid:	_____.



**PLEASE ATTACH SCHEDULE OF ITEMS HERE**