HIGHWAY WORK PROPOSAL

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

Proposal Number: 003

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Southeast Region Wic	1000-20-71	N/A	Sign Bridge Repair & Replacement 2019; Locations On Stn Per Annual Plan	VAR HWY

ADDENDUM REQUIRED

ATTACHED AT BACK

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

Proposal Guaranty Required: $40,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: June 11, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time December 22, 2019	
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 and 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:
https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

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

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

(5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.

(6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:
https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

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

B Submitting Electronic Bids

B.1 On the Internet

(1) Do the following before submitting the bid:

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™ web site.
2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
4. Submit the bid before the hour and date the Notice to Contractors designates.
5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.

(3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

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

(1) Download the latest schedule of items from the Wisconsin pages of the Bid Express™ web site reflecting the latest addenda posted on the department's web site at:
https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

Use Expedite ™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.

(2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal, not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

(3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.

(4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.

(5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:

1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.

3. The diskette or CD ROM is not submitted at the time and place the department designates.

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

Wisconsin Department of Transportation

DT1303 1/2006

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

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

Wisconsin Department of Transportation

DT1305 8/2003

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

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

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

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

(Signature of Authorized Contractor Representative) (Date)

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.

Name of Subcontractor	Class of Work	Estimated Value

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

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project Sign Bridge Repair & Replacement 2019, Locations on STN per Annual Plan, Various Highways, 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, 2019 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 (20181119)

2. Scope of Work.

The work under this contract shall consist of sign bridge repair and high mast lighting removal and replacement 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.

Do not 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.

The Milwaukee County Oak Leaf Trail runs through this project, and at no time shall material, equipment, or construction traffic travel on, use, or block this trail. Should the contractor require more information regarding the Oak Leaf Trail, please contact Mr. Brad Drefcinski, (414) 257-4772.

Rusty Patch Bumble Bee

The Hale Interchange infield is considered a High Probability Zone (HPZ) for the endangered Rusty Patch Bumble Bee. Use only rubber tire equipment in this area and immediately remove and haul augur spoils from each foundation drilling operation. For all work in this area, use tracking pads for all operations so as not to disturb any possible native habitat. There shall be no stockpiling of drilling/augering spoils. All disturbed areas shall be restored with topsoil and seed.

Construction Staging

Stage 1

Procure high mast poles following the department's plan review/approval process with its vendor. Begin repairs at all sign bridge locations and excavation and placement of high mast foundations.

Stage 2

Install the necessary conduit and electric components during this phase which may include, but not be limited to foundation conduit stub-outs, pull box installation, wire pulling, et.al. See Project 1000-13-71 under Other Contracts and Work by Others.

Stage 3

Upon receipt of high mast poles, erect the poles according to the plans and specifications.

Stage 4

Complete all wiring, electrical connections, lamp basket installation, testing, and place the new high mast lights in service. See Other Contracts Work by Others, Project 1000-13-71.

Stage 5

Remove existing high mast poles, burn off existing anchor bolts flush with the top of existing footings, and transport the existing poles off the project. The existing high mast poles become the property of the contractor.

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:

$6,000 per lane per hour broken into 15 minute increments

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

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

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

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

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

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)

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

6. Holiday 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 Wednesday, July 3, 2019 to 6:00 AM Monday, July 8, 2019 for Independence Day;
- From noon Friday, August 30, 2019 to 6:00 AM Tuesday, September 3, 2019 for Labor Day;
- From noon Wednesday, November 27 to 6:00 AM Monday, December 2, 2019 for Thanksgiving;
- From noon Monday, December 23 to 6:00 AM Thursday, January 2, 2020 for Christmas and New Year's Day.

7. Utilities.

This contract does come under the provision of Administrative Rule Trans 220.

There are underground and overhead utility facilities located within the project limits. Coordinate construction activities with a call to Digger's Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground and overhead facilities.

Bidders are advised to contact each utility company listed in the plans prior to preparing their bids, to obtain current information on the status of any utility within the project work limits.

Known utilities on the project are as follows:

AT&T Legacy – Communication Line has facilities within the project area. There are no conflicts anticipated.

The AT&T Legacy – Communication Line contact is Kenneth Colwell at (312) 734-2223 or kc1298@ATT.COM

AT&T Mobility – Communication Line has no facilities within the project area. There are no conflicts anticipated.

The AT&T Wisconsin – Communication Line contact is Ifey Onua at (847) 330-3471 or io1826@ATT.COM

AT&T Wisconsin – Communication Line has facilities within the project area. There are no conflicts anticipated.

The AT&T Wisconsin – Communication Line contact is Matt Dinnauer at (262) 896-7690 or MD9542@ATT.COM

ATC Management, Inc. has transmission facilities within the project area. There are no conflicts anticipated.

Maintain a safe working distance to the 138kV and 230kV conductors at all times based on the latest OSHA requirements.

The ATC Management, Inc. contact is Mike Olsen at (920) 338-6582 or molsen@atcllc.com

Charter Communications has facilities within the project area. There are no conflicts anticipated.

The Charter Communications contact is Pete Kruzela at (414) 908-1339 or wis.engineering@charter.com.

City of Greenfield – Road Facility has no facilities within the project area. There are no conflicts anticipated.

The City of Greenfield – Road Facility contact is Jeff Katz at (414) 329-5325 or jeffk@greenfieldwi.us

City of Greenfield – Sewer has no facilities within the project area. There are no conflicts anticipated.

The City of Greenfield – Sewer contact is Jeff Katz at (414) 329-5325 or jeffk@greenfieldwi.us

City of Milwaukee – Electricity has facilities within the project area. There are no conflicts anticipated.

The City of Milwaukee – Electricity contact is Samir Amin at (414) 286-3301 or samin@milwaukee.gov

City of Milwaukee – Water has no facilities within the project area. There are no conflicts anticipated.

The City of Milwaukee – Water contact is Samir Amin at (414) 286-3301 or samin@milwaukee.gov

Midwest Fiber Networks LLC – Communication Line has facilities within the project area. There are no conflicts anticipated.

The Midwest Fiber Networks LLC – Communication Line contact is Richard Trgovec at (414) 257-5942 or rtrgovec@midwestfibernetworks.com.

Milwaukee County Department of Public Works – Road Facility has no facilities within the project area. There are no conflicts anticipated.

Milwaukee County Department of Public Works – Road Facility contact is Daniel Murphy at (414) 459-3554 or Daniel.Murphy@milwaukeecountywi.gov.

Milwaukee Metropolitan Sewerage District – Sewer has no facilities within the project area. There are no conflicts anticipated.

Milwaukee Metropolitan Sewerage District – Sewer contact is Micki Klappa-Sullivan at (414) 225-2178 or MKlappaSullivan@mmsd.com.

TDS Metrocom LLC – Communication Line has no facilities within the project area. There are no conflicts anticipated.

The TDS Metrocom LLC – Communication Line contact is Matthew Schulte at (262) 754-3063 or matt.schulte@tdstelecom.com.

We Energies – Electric has facilities within the project area. There are no conflicts anticipated.

The We Energies – Electric contact is Nicole Smullen at (414) 221-5617 or nicole.smullen@wecenergygroup.com.

We Energies – Gas/Petroleum has facilities within the project area. There are no conflicts anticipated.

The We Energies – Electric contact is Nicole Smullen at (414) 221-5617 or nicole.smullen@wecenergygroup.com.

WisDOT ATR Pull Boxes - Electricity has no facilities within the project area. There are no conflicts anticipated.

The WisDOT ATR Pull Boxes - Electricity contact is Chad Bigler at (608) 535-7413 or chad.bigler@dot.wi.gov.

WisDOT Communications has facilities within the project area. There are no conflicts anticipated.

The WisDOT Communications contact is Jeffrey Madson at (414) 225-3723 or jeffrey.madson@dot.wi.gov.

WisDOT Lighting has underground and above ground facilities within the project area. The work associated with these facilities is included in this plan and special provisions.

The WisDOT Lighting contact is Eric Perea at (262) 574-5422 or eric.perea@dot.wi.gov.

WisDOT Signals has no facilities within the project area. There are no conflicts anticipated.

Field Contact: WisDOT Electrical Unit, 935 S. 60th St, West Allis, WI 53214; Work: (414) 266-1170, Mobile: (414) 750-1443.

WisDOT RWIS Program – Communication Tower has facilities within the project area. There are no conflicts anticipated.

WisDOT RWIS Program – Communication Tower contact is Michael Adams at (608) 266-5004 or michael.adams@dot.wi.gov.

8. 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.

The following project contains work that will be incorporated into the staging of this project:

Project 1000-13-71

SE Region Milwaukee County Highway Lighting 2019

WisDOT Contact Kurt Flierl, P.E.; (414) 750-3085; Kurt.Flierl@dot.wi.gov

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

Project 1060-52-70

IH 894, 84th Street to National Avenue.

WisDOT Contact: Paul Jacobson; (414) 750-3287; Paul.Jacobson@dot.wi.gov

Project 1090-31-71

Airport Freeway IH 894, 68th Street Overpass.

WisDOT Contact: Josh LeVeque; (414) 750-1468; Josh.Leveque@dot.wi.gov

For all projects, coordinate activities, detours, work zone traffic control, roadway, erosion control and lane closures, and other work items as required with other contracts.

9. Work by Others.

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

It is expected that routine maintenance by city and county personnel may be required at certain times that is concurrent with the work being done under this contract.

The following contract is anticipated to be under construction within the time period of this contract, and includes necessary work found in Stage 2 and Stage 4 under Prosecution and Progress in this contract unless otherwise indicated:

ID 1000-13-71

Notify the engineer two weeks in advance of completion of each stage so the engineer can coordinate with project 1000-13-71.

10. Railroad Insurance and Coordination (UP).

A Description

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

A.1 Railroad Insurance Requirements

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

Notify evidence of the required coverage, and duration to Chrjs Keckeisen, Engineer – Public Project, 101 North Wacker Drive, Suite 1920, Chicago, IL 60606, telephone 402-544-5131, email Chris T. Keckeisen (CTKECKEI@UP.COM).

Include the following information on the insurance document:

- Project ID: 1000-20-71
- Project Location: Milwaukee, WI
- Route Name: STH 100, Mayfair Road
- Crossing ID: 177 258H
- Railroad Subdivision: Milwaukee
- Railroad Milepost: 90.29
- Work Performed: Roadway Project will be installing sign bridge along with traffic control.

A.2 Work by Railroad

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

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

Contact: Chris T. Kecheisen – Industry & Public Projects Engineering Department, 101 North Wacker Drive, Suite 1920, Chicago, IL 60606, telephone 312-777-2043, email Chris T. Keckeisen (CTKECKEI@UP.COM) for consultation on railroad requirements during construction.

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

A.4 Temporary Grade Crossing

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

A.5 Train Operation

Approximately 14 through freight trains operate daily through the construction site. Through freight trains operate at 30 mph. In addition to through movements there are switching movements at slower speed.

11. Railroad Insurance and Coordination - Soo Line Railroad Company (CP).

A Description

Comply with standard spec 107.17 for all work affecting Soo Line Railroad (CP) property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Soo Line Railroad Company d/b/a Canadian Pacific.

Notify evidence of the required coverage, and duration to Canadian Pacific Railway Company at Canadian Pacific Plaza 120 South 6th Street, Suite 700, Minneapolis, MN 55402, Attention Jim Krieger.

Include the following information on the insurance document:

- Project ID: 1000-20-71
- Project Location: Milwaukee, WI
- Route Name: IH 94, Marquette Interchange
- Crossing ID: 386 497J
- Railroad Subdivision: Watertown
- Railroad Milepost: 86
- Work Performed near crossing: Traffic Control

A.2 Work by Railroad

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

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

Jim Krieger, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail jim_krieger@cpr.ca for consultation on railroad requirements during construction.

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

Flagging Contact

Dave LeClaire, Supervisor of Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4556; E-mail dave.leclaire@cpr.ca Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

* Contact Soo Line (CP) prior to letting for flagman work hour availability.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact CP Call Before You Dig line at (866) 291-0741, five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Soo Line (CP) will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Temporary Grade Crossing

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

A.5 Train Operation

Approximately 2 passenger trains and 24-26 through freight trains operate daily through the construction site. Passenger trains operate at up to 50 mph. Through freight trains operate at up to 50 mph. In addition to through movements there are switching movements at slower speed.

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Frank Pritzlaff at (262) 548-5683. Post the permit in a conspicuous place at the construction site.

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13. Erosion Control.

Add the following to standard spec 107.20:

The contractor shall prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering according to Chapter TRANS 401 requirements. The ECIP shall supplement information shown on the plans and shall not reproduce it. The ECIP will identify how the contractor intends to implement the project's erosion control plan.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison, Ms. Kristina Betzold, (414) 263-8517, Kristina.Betzold@wisconsin.gov, 2300 N Martin Luther King Dr, Milwaukee, WI 53212. Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

The ECIP should detail how these devices will be implemented for any disturbed areas. Additional devices may be needed based on field conditions and as directed by DNR and engineer.

All disturbed areas should be adequately protected and restored as soon as feasible. Any disturbed area that will not be 're-worked' for 14 days or more should be temporary seeded or matted to prevent erosion into adjacent waterways or wetlands. Any 'release' of sediment-laden water from the work site that enters a wetland or waterway should be reported to the DNR liaison within 24 hours.

Dust generated by project activities shall be control to the maximum extent practicable through water or chemical methods for the preparation of the roadway surface for the polymer overlay and the application of the polymer overlay. The contractor shall provide a plan for controlling dust, which should include a plan for the above and for cleaning sediment tracked from the project site from active roadway surfaces, which commonly generates dust.

The work area for the high mast lighting is very moist and contains wetlands. Prior to excavating for high mast foundations, get approval from the engineer for locations of the new foundations. Additionally, use of heavy equipment causing rutting should be avoided. Use tracking mats whenever possible. The entire work area needs to be restored and approved by the engineer prior to final contract payment.

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

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

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

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

14. Material and Equipment Staging.

Submit a map showing all proposed material stockpile or equipment storage locations to the engineer 14 days prior to either preconstruction or proposed use, whichever comes first. Identify the specific purposes for the location. Obtain written permits from the property owner and submit two copies to the engineer before use. Do not stockpile or store materials or equipment on wetlands.

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15. Removing High Mast Lighting Tower L-40-34, Item 204.9060.S.01; Removing High Mast Lighting Tower L-40-35, Item 204.9060.S.02; Removing High Mast Lighting Tower L-40-36, Item 204.9060.S.03; Removing High Mast Lighting Tower L-40-37, Item 204.9060.S.04; Removing High Mast Lighting Tower L-40-38, Item 204.9060.S.05; Removing High Mast Lighting Tower L-40-39, Item 204.9060.S.06; Removing High Mast Lighting Tower L-40-40, Item 204.9060.S.07.

A Description

The work under this item consists of removing high mast lighting towers, including pole shaft, luminaires, luminaire lamps, tenons and lowering rings as shown on the plans, according to the pertinent provisions of standard spec 204, and as hereinafter provided.

B (Vacant)

C Construction

Removed high mast lighting towers including pole shaft, luminaires, luminaire lamps, tenons, and lowering rings becomes the property of the contractor and shall be dispose of off the project site. Luminaire lamps, which are considered a hazardous material, shall be disposed of in an environmentally sound manner.

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. Structural and electrical inspection and approval by the engineer will take place before any associated proposed permanent or temporary lighting is approved for operation.

All materials shall be removed as described in this specification and as directed by the engineer. The disposal of removed item shall be done according to pertinent requirements of standard spec 203.3.4.

D Measurement

The department will measure Removing High Mast Lighting Tower by each unit, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.9060.S.01	Removing High Mast Lighting Tower L-40-34	EACH
SPV.9060.S.02	Removing High Mast Lighting Tower L-40-35	EACH
SPV.9060.S.03	Removing High Mast Lighting Tower L-40-36	EACH
SPV.9060.S.04	Removing High Mast Lighting Tower L-40-37	EACH
SPV.9060.S.05	Removing High Mast Lighting Tower L-40-38	EACH
SPV.9060.S.06	Removing High Mast Lighting Tower L-40-39	EACH
SPV.9060.S.07	Removing High Mast Lighting Tower L-40-40	EACH

Payment is full compensation for removing the high mast lighting towers including high mast shaft, luminaires, luminaire lamps, tenons and lowering rings; and for disposal.

16. 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 of 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.

17. Field Office.

Due to the dispersed nature of work locations on this contract, a field office is not required for this project. 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.

18. 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.

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 SPV.0105.01 Traffic Control (1000-20-71), 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.

19. High Mast Lighting Tower.

Append standard spec 660.3.1.5 with the following:

In addition, submit all high mast tower shop drawings, calculations and component lists to the Fabrication Library conforming to standard spec 105.2, and to the Bureau of Structures Ancillary Structures Program Manager for inclusion into the Highway Structures Information System.

20. Tension Anchor Rod, Item SPV.0060.01.

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[1].
4. The contractor shall furnish flat washers and heavy hex nuts conforming to Standard spec 641.2.2.3. Existing jam nuts[1] may be reused.
5. Remove rodent screen[1].
6. Remove and dispose of the grout pad[1] according to standard spec 509.3.4.
7. Tighten all nuts that are loose to snug tight (leveling and top nut). Reference the department's Form DT2321 for snug tight torque values.
8. Contact the department for direction of the top nut is not fully snugged 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[1] 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[1] per step 8 of Form DT2321.
17. Apply two coats of zinc rich primer to any damaged areas of the structure base plates and used jam nuts.
18. Reinstall the rodent screen[1].
19. Complete Form DT2321 for each structure and submit to Jason Zemke (262-548-8734) for transmittal to Bureau of Structures and inclusion in HSIS.

Note[1] – 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.0060.01	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.

21. Remove Grout Pad, Item SPV.0060.02.

A Description

This special provision describes removing grout pads under base plates as shown on the plans, and as hereinafter provided.

B Materials

Furnish cold-applied galvanizing according to "Tension Anchor Rod" Article.

Furnish rodent screen and wire to secure the rodent screen according to the "Replace Rodent Screen" Article.

C Construction

Remove and dispose of the grout pad using air chippers or breakers that weigh no more than 35 pounds and are equipped with flat, chisel-type points with a cutting edge not less than 3/4 inch or greater than 3 inches wide. After reaching the edge of the anchor rods, do not use hammers heavier than 15 pounds within one inch of the steel. Dispose of old concrete and asphaltic patching removed away from the bridge site. Implement necessary procedures to minimize debris dropping into the stream, streambed, roadway, or right-of-way below. If the foundation spalls during removal of grout pad, repair according to 509.3.7 of the standard specification. If excessive areas begin to spall, contact BOS for guidance.

Measure distance from top of concrete to bottom of leveling nut. If the distance is greater than the diameter of the anchor rod, contract the department for further instruction.

Thoroughly clean the existing anchor rods and leveling nuts below the base plate, roughen the surface on the anchor rods and apply cold-galvanizing to the anchor rods and leveling nuts.

Install a rodent screen according to the Replace Rodent Screen Article if electrical devices are installed on the structure.

D Measurement

The department will measure Remove Grout Pad by each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Remove Grout Pad	EACH

Payment is full compensation for removing and disposing of the grout pad; cleaning and applying cold-galvanizing; and for providing and installing a rodent screen.

22. Remove Debris and Regrade, Item SPV.0060.03.

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.0060.03	Remove Debris and Regrade	EACH

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

23. Replace Rodent Screen, Item SPV.0060.04.

A Description

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

B Materials

Furnish galvanized or stainless welded 23-gauge steel mesh, with ¼" max. opening. 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 standard specifications and as shown in the plans. Replace the deteriorated 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.0060.04	Replace Rodent Screen	EACH

Payment is full compensation for replacing rodent screen; and for removing and properly disposing of existing materials being replaced.

24. Abandon High Mast Foundation, Item SPV.0060.06.

A Description

This special provision describes abandoning high mast tower concrete foundations.

B (Vacant)

C Construction

Conform to standard spec 204.3. Coordinate with the engineer concerning construction around each high mast tower concrete foundation and abandon each foundation as directed by the engineer. At bases to be abandoned, burn off existing high mast anchor rods flush to the base. Dispose of materials off the site and leave the existing foundation in place.

D Measurement

The department will measure Abandoning High Mast Foundation as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Abandon High Mast Foundation	EACH

Payment is full compensation conforming to standard spec 204.5.1 (2).

25. Replace Truss Member, Item SPV.0060.07.

A Description

This special provision describes replacing a truss member 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. The angle shall be 1.5” x 1.5” x 0.25” angle size and field verify member length to replace the missing or damaged truss member.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641, CMM 5-20.6.5.4.2, and as shown in the plans. New members should be galvanized prior to installation. Galvanizing should be ground off at connection locations on new member and locations on existing truss to be welded. Follow SPV.0105.01 Repair Galvanized Coating for procedures to repair galvanizing, this is incidental to Replace Truss Member item.

Existing members that are damaged and/or deformed are to be removed prior to installation of new member. Care must be taken to not damage chords or other truss members during removal. Existing welds must be ground smooth prior to installing new members.

D Measurement

The department will measure Replace Truss Member as each individual truss member, 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 Truss Member	EACH

Payment is full compensation for replacing truss member as well as the necessary connection bolts; for removing and properly disposing of existing materials being replaced; and for fabricating, handling, transporting, and erecting.

26. Tension Structural Connection Bolt (Friction), Item SPV.0060.08.

A Description

This special provision describes replacing splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolt as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641, 657 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 with a new bolt to properly tension the bolt. 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 connections. Washers are **not** to be placed between faying surfaces. If present, lock washers and washers between faying surfaces must be removed and discarded.
4. The contractor shall furnish bolts, flat washers, heavy hex nuts, shims, and DTI's conforming to standard spec 641.
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 and follow the remaining procedure. Existing bolts, nuts washers, and shims shall be discarded.
8. Install the new bolt to snug tight.
9. Repeat steps 7 and 8 until all bolts have been replaced. Ensure there are no gaps in the faying surface after all bolts have been replaced. If gaps are present, contact central office contact on DT form.
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.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or 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 licensed in Wisconsin, and shall be submitted to the engineer and BOS for permanent record.

D Measurement

The department will measure Tension Structural Connection Bolt (Friction) as each individual 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	Tension Structural Connection Bolt (Friction)	EACH

Payment is full compensation for replacing all necessary splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

27. Tighten Connection Bolt (Non-Friction), Item SPV.0060.09.

A Description

This special provision describes replacing and tightening connection bolts at post-to-truss and mast arm connection as shown on the plans, and as hereinafter provided. These connections are not designed as tensioned connections. As such, bolts are installed in a snug tight condition. Attempting to fully tension these connections could result in damage.

B Materials

Furnish materials that are according to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641, 657 and as shown in the plans. Replace all bolts and nuts which are loose, missing, corroded, stripped or otherwise unable to be tightened as required. The contractor shall follow the tightening procedure outlined herein:

1. The contractor shall field verify the size and number of bolts, nuts, and flat washers at each structure to be replaced. Note that some structures are missing washers. Washers are to be installed under the turned element, so the number of washers may change and the lengths of the bolts may need to be increased.
2. The contractor shall furnish bolts, flat washers, and heavy hex nuts, conforming to standard spec 641.
3. Bolts to be replaced shall be removed one at a time in a connection.
4. Tighten bolts which were loose or identified to be replaced to snug tight.
5. Verify all other bolts in connection are also snug tight.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or a connection with six or less bolts, the truss or mast arm 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 to ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the engineer and BOS for permanent record.

D Measurement

The department will measure Tighten Connection Bolt (Non-Friction) as each individual connection bolt, acceptably tightened.

E Payment

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

ITEM NUIMBER	DESCRIPTION	UNIT
SPV.0060.09	Tighten Connection Bolt (Non-Friction)	EACH

Payment is full compensation for replacing and tightening connection bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

28. Secure/Replace Cap, Item SPV.0060.10.

A Description

This special provision describes securing or replacing missing or deteriorated chord, post and miscellaneous 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 657 and as shown in the plans. Contractor to field verify size of chord, post and miscellaneous caps to be replaced.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641 and 657 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 Cap as each individual 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.0060.10	Secure/Replace Cap	EACH

Payment is full compensation 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.

29. Replace U-Bolt, Item SPV.0060.11.

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, WisDOT Sign Plate Manual Detail A4-7 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.0060.11	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; for fabricating, handling, transporting, and erecting.

30. Remove Nesting Debris, Item SPV.0060.12.

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 Remove 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.0060.12	Remove 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.

31. Slotted Hole Repair On Sign Support Bracket, Item SPV.0060.13.

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 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.0060.13	Slotted Hole Repair on Sign Support Bracket	EACH

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

32. Replace Type II Sign Support Bracket, Item SPV.0060.14.

A Description

This special provision describes replacing the damaged or missing type II sign support brackets as shown on the plans, and as hereinafter provided.

B Materials

Furnish type II sign bracket assembly materials for overhead signs support that are according to standard spec 637 and which are on the department's approved product list and as shown in the plans.

C Construction

Take down the existing sign panel and remove the existing support bracket and properly dispose of the bracket assembly. Use construction methods that are according to standard specs 637 and 641 and as shown in the plans. Provide torque requirement and other installation instructions to the Region. All bolts, nuts, washers or miscellaneous items required to replace the damaged or deteriorated sign bracket will be considered incidental to this item. If an existing sign is to be re-installed, the installation of the sign is incidental to Replace Type II Sign Support Bracket.

D Measurement

The department will measure Replace Type II Sign Support Bracket as each individual assembly, 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.0060.14	Replace Type II Sign Support Bracket	EACH

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

33. Install ID Plaque, Item SPV.0060.15.

A Description

This special provision describes installing sign, signal and high mast light ID plaques as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to SDD Identification Plaques Underdeck and High Mast Lighting and SDD Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Supports and Traffic Signals as required by structure type.

C Construction

Install the sign bridge ID plaque according to SDD Identification Plaques Underdeck and High Mast Lighting and SDD Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Supports and Traffic Signals as required by structure type. Miscellaneous hardware required to securely install the ID plaque will be considered incidental to this item.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	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.

34. Install Sign Panel Connector, Item SPV.0060.16.

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.0060.16	Install Sign Panel Connector	EACH

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

35. Secure Sign Type II, Item SPV.0060.17.

A Description

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

B Materials

Funish 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.0060.17	Secure Sign 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; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

36. Secure Luminaire Cover, Item SPV.0060.18.

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.0060.18	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.

37. Install Conduit Plug, Item SPV.0060.19.

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.0060.19	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.

38. Secure/ Replace Handhole Cover, Item SPV.0060.20.

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.0060.20	Secure/ Replace Handhole Cover	EACH

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

39. Traffic Control (1000-20-71), Item SPV.0105.01.

A Description

This special provision describes providing, maintaining, repositioning, and removing temporary traffic control devices according to standard spec 643, as shown in the plans, and as directed by the engineer.

B Materials

Conform to standard spec 643.2.

C Construction

Conform to standard spec 643.3.

D Measurement

The department will measure Traffic Control (1000-20-71) bid items by the lump sum, 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	Traffic Control (1000-20-17)	LS

40. 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

Repair all zinc coating that is chipped or damaged or as otherwise noted by plans or the engineer by metallizing according to ASTM A780. Thoroughly clean the places receiving coating before applying the new coating.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	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:

107.14 Contractor's Responsibility for Work

Replace the entire text with the following effective with the June 2019 letting:

(1) Within 107.14, the term "work" is redefined to mean "the work product that is completed in its final position and is incorporated in the project."

(2) The contractor shall maintain charge and care of the work until the engineer accepts the work as specified in 105.11. Protect the work against injury or damage caused by public traffic, the action of the elements, or from other causes, whether arising from the execution or non-execution of the work. Rebuild, repair, restore, and make good injuries or damages to work caused by the above at no additional cost to the department.

(3) The department will assume responsibility for the work as follows:

1. Costs the department assumes under 104.6.
2. Costs to repair bridge damage attributed to public traffic, if the engineer determines that damage was beyond the control of and without the fault of the contractor.

(4) The contractor shall not bear the expense for damage to the work caused by abnormal and unforeseeable occurrences beyond the control of, and without the fault or negligence of, the contractor. These abnormal and unforeseeable occurrences include but are not limited to the following:

1. Cataclysmic phenomena of nature.
2. Acts of the public enemy.
3. Acts of government authorities.

(5) Before suspending the work, take the necessary precautions to prevent damage to the project, prevent traffic accidents, and provide for normal drainage. Erect necessary temporary barrier, barricades, signs, or other facilities at no expense to the department except as specified in 104.6.

(6) The contractor is responsible for all damages to equipment and supplies regardless of the circumstances.

107.17.1 General

Replace paragraph seven with the following effective with the December 2018 letting:

(7) Have a professional engineer registered in the state of Wisconsin sign and seal the shop drawings. At least 30 calendar days before starting falsework, form, or shoring construction; submit a PDF file of shop drawings to the railroad's chief engineering officer and to the engineer. The engineer and the railroad may review the shop drawings. If the engineer or the railroad finds the shop drawings unsatisfactory, the contractor shall make the required changes. A satisfactory shop drawing review does not relieve the contractor of responsibility and liability for the structural integrity and proper functioning of the falsework, forms, or shoring.

109.1.1 General

Replace the entire text with the following effective with the January 2019 letting:

(1) The engineer will use the US standard system to measure all work completed under the contract. The engineer will determine quantities of materials the contractor furnishes and work the contractor performs using measurement methods and computations conforming to standard engineering practice, modified to meet department requirements. The engineer will document these measurements using department procedures.

(2) The engineer will measure the work as the contract measurement subsection for individual items specifies. The department will measure the actual quantities of work the contractor acceptably completes and make final payment based on those actual measured quantities except as follows:

1. If the measurement subsection for a bid item specifically restricts the quantity measured for payment or allows for use of conversion factors.

2. If the engineer executes a contract change order modifying the method of measurement for specific bid items, the engineer will measure the quantities of applicable bid items for payment using the change order methods.
3. If the engineer, under 105.3.1(2), approves a contractor-requested plan dimension change between US standard and SI metric dimensions, the engineer will measure whichever of the following is less:
    - Actual quantities constructed.
    - Quantities derived from the original plan dimensions.
4. For substitutions made under 106.2.3 between US standard and SI metric products, the engineer will measure the actual quantities of the substitute products using the original contract measuring system.

205.5.2 Excavation

Replace the entire text with the following effective with the April 2019 letting:

205.5.2.1 General

(1) Payment for the Excavation bid items under this section is full compensation for work specified for those excavation classes under 205 with no separate contract bid items; for hauling; and for constructing and removing temporary drainage installations as specified under 205.3.3.

(2) Payment also includes removing walls, foundations, etc. with no separate contract bid items; for disposal of resulting material; and for backfilling basements or openings resulting from removing walls, foundations, etc.

205.5.2.2 Associated Work

(1) The department will pay separately for removing concrete structures under the 203 and 204 bid items.

(2) The department will pay separately for granular backfill the contract or engineer requires under the Backfill Granular bid items.

(3) The department will pay separately for erosion control, fertilizing, and seeding of material disposal sites as specified for material disposal sites in 628.5.1.

(4) If the contract does not include the Excavation Rock bid item, the department will pay 5 times the contract bid price of the Excavation Common bid item to remove boulders having volumes of one cubic yard or more. The department will pay for these boulder removals under the Removing Large Boulders administrative item.

205.5.2.3 Excavation Below Subgrade

205.5.2.3.1 General

(1) The department will only pay for engineer-approved EBS to correct problems beyond the contractor's control.

205.5.2.3.2 Quantity Overruns

(1) The department will provide additional compensation for EBS quantity overruns if the following conditions are met:

- The quantity of engineer-approved EBS, calculated exclusive of work covered under 205.5.2.3.3 or 301.5, exceeds the total contract EBS quantity the earthwork summary sheet shows by more than 25 percent.
- The material exceeding that 25 percent threshold cannot be disposed of within the project right-of-way.

(2) The department will pay 2 times the contract unit price, up to $25,000, for the quantity of EBS meeting the above conditions. After exceeding $25,000 per contract, the department will pay for additional EBS as determined under 109.4.

205.5.2.3.3 Subgrade Correction

(1) Work performed under 105.3 to correct unacceptable work is the contractor's responsibility. For EBS work performed where the engineer did not approve the subgrade for subsequent operations, the department will pay for EBS at the contract price under the pertinent excavation and backfill bid items, or absent those bid items as extra work. For EBS work performed where the engineer approved the underlying layers for subsequent operations, the department will pay for EBS as follows:

1. Up to a maximum of $25,000 per contract, the department will pay as follows:
    1.1 For excavation: 3 times the contract unit price for the Excavation Common bid item under the EBS Post Grading administrative item.

1.2 For backfill with the materials the engineer directs: at the contract unit price for the bid items of each material used to fill the excavation.

1.3 For excavation or backfill without contract bid items: as extra work.

2. After exceeding $25,000 per contract, the department will pay for additional EBS in engineer-approved areas as determined under 109.4.

305.2.1 General

Replace paragraph two with the following effective with the December 2018 letting:

(2) Where the contract specifies or allows 1 1/4-inch base, do not place reclaimed asphalt, reprocessed material, or blended materials below virgin aggregate materials unless the contract specifies or the engineer allows in writing. The department will allow virgin aggregate above reclaimed asphalt, reprocessed material, or blended materials in shoulder areas adjacent to concrete pavement.

420.3.2.1 General

Replace paragraph one with the following effective with the December 2018 letting:

(1) Use self-propelled grinding machines with depth, grade, and slope controls designed for grinding and texturing concrete. Equip grinding machines with diamond blades and a vacuuming system capable of removing liquid and solid residue from the ground surface. Shroud the machine to prevent discharging loosened material into adjacent work areas or live traffic lanes. Provide the specified effective wheelbase, defined as the center of the front to center of the rear main support wheels.

420.3.2.2 Continuous Grinding

Replace paragraph one with the following effective with the December 2018 letting:

(1) Under the Continuous Diamond Grinding Concrete Pavement bid item, ensure that the grinding machine, including the grinding head, weighs 35,000 pounds or more, will grind a strip at least 4 feet wide, and has an effective wheel base of 25 feet or more. For pavements with a design speed less than 40 miles per hour and areas difficult to access, the contractor may use equipment with an effective wheel base of 12 feet or more.

450.3.2.8 Jointing

Replace paragraphs three through five with the following effective with the December 2018 letting:

(3) Construct notched wedge longitudinal joints for mainline paving if the pavement thickness conforms to the minimums specified in 460.3.2, unless the engineer directs or allows an alternate joint. Construct the wedge using a slope no steeper than 3:1. Extend the wedge 12 inches beyond the normal lane width, or as the engineer directs. Ensure that the wedge for all layers directly overlaps and slopes in the same direction.

(4) Locate the joint at the pavement centerline for 2-lane roadways, or at lane lines if the roadway has more than 2 lanes. Construct a vertical notch 1/2-inch to 3/4-inch high on the centerline or lane line at the top of each wedge. Place a 1/2-inch to 3/4-inch notch at the outside bottom edge of the wedge after compacting each layer. Align the finished longitudinal joint line of the upper layer with the centerline or lane line.

(5) Construct the wedge for each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Shape and compact the wedge with a weighted steel side roller wheel the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.

455.2.4.3 Emulsified Asphalts

Replace paragraph two with the following effective with the December 2018 letting:

(2) The bill of lading for emulsified asphalts shall indicate the asphalt content of the original emulsion and dilution rate of the additional water added to the original emulsion. If undiluted samples are not available, test the diluted material and modify AASHTO M140, M208, or M316 to reflect properties resulting from dilution of the asphalt.

460.2.8.3.1.4 Department Verification Testing Requirements

Replace paragraph three with the following effective with the December 2018 letting:

(3) The department will perform testing conforming to the following standards:

Bulk specific gravity (G_{mb}) of the compacted mixture according to AASHTO T166.

Maximum specific gravity (G_{mm}) according to AASHTO T209.

Air voids (V_a) by calculation according to AASHTO T269.

VMA by calculation according to AASHTO R35.

Asphalt content by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164, or Asphalt Analyzer™ according to manufacturer recommendations.

460.2.8.3.1.6 Acceptable Verification Parameters

Replace paragraph one with the following effective with the December 2018 letting:

(1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:

- Va is within a range of 2.0 to 4.3 percent. For SMA, Va is within a range of 2.7 to 5.3 percent.
- VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.
- Asphalt content is within minus 0.3 percent of the JMF.

460.2.8.3.1.7 Dispute Resolution

Replace paragraph one with the following effective with the December 2018 letting:

(1) When QV test results do not meet the specified limits for 100 percent pay, the bureau's AASHTO accredited laboratory and certified personnel will referee test the retained portion of the QV sample and the retained portion of the required forward and backward QC retained samples according to CMM 8-36.

460.5.2.1 General

Replace paragraphs five and six with the following effective with the December 2018 letting:

(5) The department will reduce pay for nonconforming QMP HMA mixtures as specified in 460.2.8.2.1.7, starting from the stop point to the point when the running average of 4 is back inside the warning limits. The engineer will determine the quantity of material subject to pay reduction based on the testing data and an inspection of the completed pavement. The department will reduce pay as follows:

PAYMENT FOR MIXTURE*[1] [2] [3]*

ITEM	PRODUCED WITHIN WARNING BANDS	PRODUCED OUTSIDE JMF LIMITS
Gradation	90%	75%
Asphalt Content*[4]*	___	___
Air Voids	70%	50%
VMA	90%	75%

[1] For projects or plants where the total production of each mixture design requires less than 4 tests refer to CMM 8-36.

[2] Payment is in percent of the contract unit price for the HMA Pavement bid item. The department will reduce pay based on the nonconforming property with lowest percent pay. If the quantity of material subject to pay adjustment based on the running average of 4 is also subject to pay adjustment resulting from dispute resolution in accordance with 460.2.8.3.1.7, the department will apply the single pay adjustment resulting in the lowest percent pay.

[3] In addition to any pay adjustment listed in the table above, the department will adjust pay for nonconforming binder under the Nonconforming QMP Asphaltic Material administrative item. The department will deduct 25 percent of the contract unit price of the HMA Pavement bid item per ton of pavement placed with nonconforming PG binder the engineer allows to remain in place.

[4] The department will not adjust pay based on a running average of 4 asphalt content tests; however, corrective action will be applied to nonconforming material according to 460.2.8.2.1.7.

(6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:

- Va greater than 5.0 or less than 1.5.
- VMA more than 1.0 below the minimum allowed in table 460-1.
- AC more than 0.5 % below the JMF target.

Remove and replace the material, or if the engineer allows the mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

501.3.8.2.1 General

Replace paragraph two with the following effective with the April 2019 letting:

(2) If the concrete temperature at the point of placement exceeds 90 F, do not place concrete under the following structure and concrete barrier bid items:

Concrete Masonry Bridges	Concrete Masonry Retaining Walls
Concrete Masonry Bridges HES	Concrete Masonry Retaining Walls HES
Concrete Masonry Culverts	Concrete Masonry Endwalls
Concrete Masonry Culverts HES	Concrete Masonry Overlay Decks
Concrete Barrier Single-Faced 32-Inch	Concrete Barrier (type)
Concrete Barrier Double-Faced 32-Inch	Concrete Barrier Fixed Object Protection (type)
Concrete Barrier Transition Section 32-Inch	Concrete Barrier Transition (type)

506.3.2 Shop Drawings

Replace paragraph four with the following effective with the December 2018 letting:

(4) Ensure that the fabricator submits a PDF file of shop drawings for railroad structures to the railroad company's chief engineering officer upon contract completion.

603.3.1.1 General

Replace paragraph three with the following effective with the April 2019 letting:

(3) Cast permanent barrier and transitions in place. Use construction methods conforming to 502 and conform to the hot weather placement requirements of 501.3.8.2. Use forms or engineer-approved slip form methods for barrier. Use forms for transitions. Construct barrier on horizontal curves as a series of 12-foot or shorter chords.

646.3.1.2 Liquid Marking

Replace paragraph five with the following effective with the June 2019 letting:

(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
Epoxy	SMA, seal coats, and polymer overlays	25	25
Epoxy	all other	20	22.5
Wet Reflective Epoxy	all	20	[1]

[1] Use the product specific bead application rate for wet reflective epoxy specified on the department's APL.

646.3.2.3.2 Wet Reflective Epoxy

Replace paragraph one with the following effective with the June 2019 letting:

(1) Apply wet reflective epoxy binder in a grooved slot. and provide a double drop bead system as follows:

1. Wet reflective/recoverable elements at the application rate specified in the department's APL.
2. Glass beads conforming to 646.2.2 at the application rate specified in the department’s APL.

650.3.1 General

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

(1) Department and contractor responsibilities for construction staking are specified in 105.6. Conform to 105.6 and the additional requirements specified here in 650.3 for the individual contractor-staking bid items the contract includes.

(2) Protect and preserve known property and survey marks and land monuments as specified in 107.11.3. The contract may require related work under the 621 bid items.

(3) Obtain or calculate benchmark data, grades, and alignment from plan information. The engineer will furnish data for the horizontal and vertical control points, control point ties, horizontal alignments, profiles, and elevations. Reestablish, set additional, and maintain the horizontal and vertical control points and control point ties, as needed for bid items.

(4) Check horizontal and vertical information including but not limited to alignments, locations, elevations, and dimensions, that either the plans show or the engineer provides, for compatibility with existing field conditions. Conduct similar compatibility checks and accuracy checks of horizontal and vertical positions either the department or the contractor establishes in the field.

(5) Perform survey work using conventional methods, or AMG methods capable of achieving the lines and grades the plans show for the work in question. Establish additional benchmarks and control points as necessary to support the method of operation.

650.3.1.1 Staking

(1) Furnish, set, reference, and maintain stakes and markings necessary to establish the alignment, location, benchmarks, elevations, and continuous profile-grades for road and structure work as needed for bid items. Supervise and coordinate construction staking.

(2) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. Make the survey notes and computations available to the engineer within 24 hours, upon request, as the work progresses.

(3) Furnish surveying equipment, stakes, flags, pins, lath, whiskers, and other materials necessary to perform this work, subject to the engineer’s approval.

650.3.1.2 Automated Machine Guidance

650.3.1.2.1 General

(1) The contractor may substitute AMG for conventional staking on all or part of the work under the individual staking bid items. Coordinate with the engineer throughout the course of construction to ensure that work performed using AMG conforms to the contract tolerances and that the methods employed conform to the contractor's AMG work plan and accepted industry standards. Revert to conventional staking methods for all or part of the work at any point during construction if AMG is producing unacceptable results.

650.3.1.2.2 AMG Work Plan

(1) Submit a comprehensive written AMG work plan for department review at least 5 business days before the preconstruction conference. In that plan discuss how AMG technology will be integrated into other technologies employed on the project. List the staking bid items that will have work performed using AMG and, for each bid item listed, include the following:

1. Designate which portions of the contract will be done using AMG and which portions will be done using conventional staking.
2. Designate a single staff person as the primary contact for AMG technology issues.
3. List and map the primary and secondary control points required under 105.6.2 enveloping the site.
4. Describe the contractor's quality control procedures. Include the frequency and type of checks performed to ensure that the work conforms to the contract plans.

(2) The engineer will review the plan to determine if it conforms to the contract. Do not perform AMG work until the engineer approves the governing portion of the AMG workplan. Perform the work as the contractor's AMG work plan provides. Update the plan as necessary.

650.3.1.2.3 Geometric and Surface Information

650.3.1.2.3.1 Department Responsibilities

(1) At any time after the contract is awarded the contractor may request the contractor data packet. The department will provide the packet within 5 business days of receiving the contractor's request.

650.3.1.2.3.2 Contractor Responsibilities

(1) Develop and maintain a contractor construction model for areas of the project employing AMG. Confirm that the resulting model agrees with the contract plans.

(2) If the engineer requests, provide the construction model to the department in LandXML or other engineer-approved format.

650.3.1.2.4 Managing and Updating Information

(1) Notify the department of any errors or discrepancies in department-provided information. The department will determine what revisions may be required. The department will revise the contract plans, if necessary, to address errors or discrepancies that the contractor identifies. The department will provide the best available information related to those contract plan revisions.

(2) Revise the construction model as required to support construction operations and to reflect any contract plan revisions the department makes. Perform checks to confirm that the revised construction model agrees with the contract plan revisions. If the engineer requests, provide construction model updates to the engineer. The department will pay for costs incurred to incorporate contract plan revisions as extra work.

650.3.1.2.5 Construction Checks

(1) Check the work against the plan elevation at randomly selected points on cross-sections located at stations evenly divisible by 100 at the frequency the engineer approved as a part of the AMG work plan. Submit the results of these random checks to the engineer daily. Notify the engineer immediately if a check exceeds the tolerances specified in 650.3.1.2.6 below.

(2) Check the work at additional points as the engineer directs. The department may conduct periodic independent checks.

650.3.1.2.6 Construction Tolerances

(1) Ensure that the finished work vertically matches existing or other completed features. Ensure that the work conforms to revised plan elevations as follows:

- Subgrade : +/- 0.10 feet.
- Base : within the tolerance specified in 301.3.4.1(2).

650.3.3 Subgrade

Retitle and replace the entire text with the following effective with the December 2018 letting:

650.3.3 Subgrade Staking

(1) Set construction stakes or marks at intervals of 100 feet, or more frequently, for rural sections and at intervals of 50 feet, or more frequently, for urban sections. Include additional stakes at each cross-section as necessary to match the plan cross-section, achieve the required accuracy, and to support construction operations. Also set and maintain stakes as necessary to establish the horizontal and vertical positions of intersecting road radii, auxiliary lanes, horizontal and vertical curves, and curve transitions. Locate stakes to within 0.25 feet horizontally and establish the grade elevation to within 0.03 feet vertically.

Errata

520.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

(5) Provide joint ties on the upstream and downstream ends of circular and horizontal elliptical concrete culvert and concrete cattle pass installations. Tie the next 3 pipe joints or, if using apron endwalls, the endwall joint and the last 2 pipe joints. Ties are not required on culverts with masonry endwalls unless the plans show otherwise.

608.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

(5) Provide joint ties on concrete storm sewer system infall and outfall pipes. Tie the last 3 pipe joints or, if using apron endwalls, the endwall joint and the next 2 pipe joints. Ties are not required on installations with masonry endwalls unless the plans show otherwise.

ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1st Tier and DBE Payments During Construction

1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
5. 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 within 5 days of payment receipt to be logged manually.

***Additionally, for information on Subcontractor Sublet assignments, Subcontractor Payments and Payment Tracking, please refer to the CRCS Payment and Sublets manual at:

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

Effective January 2019 Letting ASP 9

ADDITIONAL SPECIAL PROVISION 9
Electronic Certified Payroll or Labor Data Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx

(2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.

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

(5) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at paul.ndon@dot.wi.gov. Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:

https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf

Non-discrimination Provisions

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

a. Withholding payments to the contractor under the contract until the contractor complies; and/or
b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

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.

https://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:

https://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project Sign Bridge Repair & Replacement 2019, Locations on STN per Annual Plan, Various Highways, 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, 2019 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 (20181119)

2. Scope of Work.

The work under this contract shall consist of sign bridge repair and high mast lighting removal and replacement 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.

Do not 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.

The Milwaukee County Oak Leaf Trail runs through this project, and at no time shall material, equipment, or construction traffic travel on, use, or block this trail. Should the contractor require more information regarding the Oak Leaf Trail, please contact Mr. Brad Drefcinski, (414) 257-4772.

Rusty Patch Bumble Bee

The Hale Interchange infield is considered a High Probability Zone (HPZ) for the endangered Rusty Patch Bumble Bee. Use only rubber tire equipment in this area and immediately remove and haul augur spoils from each foundation drilling operation. For all work in this area, use tracking pads for all operations so as not to disturb any possible native habitat. There shall be no stockpiling of drilling/augering spoils. All disturbed areas shall be restored with topsoil and seed.

Construction Staging

Stage 1

Procure high mast poles following the department's plan review/approval process with its vendor. Begin repairs at all sign bridge locations and excavation and placement of high mast foundations.

Stage 2

Install the necessary conduit and electric components during this phase which may include, but not be limited to foundation conduit stub-outs, pull box installation, wire pulling, et.al. See Project 1000-13-71 under Other Contracts and Work by Others.

Stage 3

Upon receipt of high mast poles, erect the poles according to the plans and specifications.

Stage 4

Complete all wiring, electrical connections, lamp basket installation, testing, and place the new high mast lights in service. See Other Contracts Work by Others, Project 1000-13-71.

Stage 5

Remove existing high mast poles, burn off existing anchor bolts flush with the top of existing footings, and transport the existing poles off the project. The existing high mast poles become the property of the contractor.

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:

$6,000 per lane per hour broken into 15 minute increments

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

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

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

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

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

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)

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

6. Holiday 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 Wednesday, July 3, 2019 to 6:00 AM Monday, July 8, 2019 for Independence Day;
- From noon Friday, August 30, 2019 to 6:00 AM Tuesday, September 3, 2019 for Labor Day;
- From noon Wednesday, November 27 to 6:00 AM Monday, December 2, 2019 for Thanksgiving;
- From noon Monday, December 23 to 6:00 AM Thursday, January 2, 2020 for Christmas and New Year's Day.

7. Utilities.

This contract does come under the provision of Administrative Rule Trans 220.

There are underground and overhead utility facilities located within the project limits. Coordinate construction activities with a call to Digger's Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground and overhead facilities.

Bidders are advised to contact each utility company listed in the plans prior to preparing their bids, to obtain current information on the status of any utility within the project work limits.

Known utilities on the project are as follows:

AT&T Legacy – Communication Line has facilities within the project area. There are no conflicts anticipated.

The AT&T Legacy – Communication Line contact is Kenneth Colwell at (312) 734-2223 or kc1298@ATT.COM

AT&T Mobility – Communication Line has no facilities within the project area. There are no conflicts anticipated.

The AT&T Wisconsin – Communication Line contact is Ifey Onua at (847) 330-3471 or io1826@ATT.COM

AT&T Wisconsin – Communication Line has facilities within the project area. There are no conflicts anticipated.

The AT&T Wisconsin – Communication Line contact is Matt Dinnauer at (262) 896-7690 or MD9542@ATT.COM

ATC Management, Inc. has transmission facilities within the project area. There are no conflicts anticipated.

Maintain a safe working distance to the 138kV and 230kV conductors at all times based on the latest OSHA requirements.

The ATC Management, Inc. contact is Mike Olsen at (920) 338-6582 or molsen@atcllc.com

Charter Communications has facilities within the project area. There are no conflicts anticipated.

The Charter Communications contact is Pete Kruzela at (414) 908-1339 or wis.engineering@charter.com.

City of Greenfield – Road Facility has no facilities within the project area. There are no conflicts anticipated.

The City of Greenfield – Road Facility contact is Jeff Katz at (414) 329-5325 or jeffk@greenfieldwi.us

City of Greenfield – Sewer has no facilities within the project area. There are no conflicts anticipated.

The City of Greenfield – Sewer contact is Jeff Katz at (414) 329-5325 or jeffk@greenfieldwi.us

City of Milwaukee – Electricity has facilities within the project area. There are no conflicts anticipated.

The City of Milwaukee – Electricity contact is Samir Amin at (414) 286-3301 or samin@milwaukee.gov

City of Milwaukee – Water has no facilities within the project area. There are no conflicts anticipated.

The City of Milwaukee – Water contact is Samir Amin at (414) 286-3301 or samin@milwaukee.gov

Midwest Fiber Networks LLC – Communication Line has facilities within the project area. There are no conflicts anticipated.

The Midwest Fiber Networks LLC – Communication Line contact is Richard Trgovec at (414) 459-3554 or rtrgovec@midwestfibernetworks.com.

Milwaukee County Department of Public Works – Road Facility has no facilities within the project area. There are no conflicts anticipated.

Milwaukee County Department of Public Works – Road Facility contact is Daniel Murphy at (414) 257-5942 or Daniel.Murphy@milwaukeecountywi.gov.

Milwaukee Metropolitan Sewerage District – Sewer has no facilities within the project area. There are no conflicts anticipated.

Milwaukee Metropolitan Sewerage District – Sewer contact is Micki Klappa-Sullivan at (414) 225-2178 or MKlappaSullivan@mmsd.com.

TDS Metrocom LLC – Communication Line has no facilities within the project area. There are no conflicts anticipated.

The TDS Metrocom LLC – Communication Line contact is Matthew Schulte at (262) 754-3063 or matt.schulte@tdstelecom.com.

We Energies – Electric has facilities within the project area. There are no conflicts anticipated.

The We Energies – Electric contact is Nicole Smullen at (414) 221-5617 or nicole.smullen@wecenergygroup.com.

We Energies – Gas/Petroleum has facilities within the project area. There are no conflicts anticipated.

The We Energies – Electric contact is Nicole Smullen at (414) 221-5617 or nicole.smullen@wecenergygroup.com.

WisDOT ATR Pull Boxes - Electricity has no facilities within the project area. There are no conflicts anticipated.

The WisDOT ATR Pull Boxes - Electricity contact is Chad Bigler at (608) 535-7413 or chad.bigler@dot.wi.gov.

WisDOT Communications has facilities within the project area. There are no conflicts anticipated.

The WisDOT Communications contact is Jeffrey Madson at (414) 225-3723 or jeffrey.madson@dot.wi.gov.

WisDOT Lighting has underground and above ground facilities within the project area. The work associated with these facilities is included in this plan and special provisions.

The WisDOT Lighting contact is Eric Perea at (262) 574-5422 or eric.perea@dot.wi.gov.

WisDOT Signals has no facilities within the project area. There are no conflicts anticipated.

Field Contact: WisDOT Electrical Unit, 935 S. 60th St, West Allis, WI 53214; Work: (414) 266-1170, Mobile: (414) 750-1443. Office contact is Derrin Wolford at (262) 521-4409 or derrin.wolford@dot.wi.gov.

WisDOT RWIS Program – Communication Tower has facilities within the project area. There are no conflicts anticipated.

WisDOT RWIS Program – Communication Tower contact is Michael Adams at (608) 266-5004 or michael.adams@dot.wi.gov.

8. 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.

The following project contains work that will be incorporated into the staging of this project:

Project 1000-13-71

SE Region Milwaukee County Highway Lighting 2019

WisDOT Contact Kurt Flierl, P.E.; (414) 750-3085; Kurt.Flierl@dot.wi.gov

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

Project 1060-52-70

IH 894, 84th Street to National Avenue.

WisDOT Contact: Paul Jacobson; (414) 750-3287; Paul.Jacobson@dot.wi.gov

Project 1090-31-71

Airport Freeway IH 894, 68th Street Overpass.

WisDOT Contact: Josh LeVeque; (414) 750-1468; Josh.Leveque@dot.wi.gov

For all projects, coordinate activities, detours, work zone traffic control, roadway, erosion control and lane closures, and other work items as required with other contracts.

9. Work by Others.

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

It is expected that routine maintenance by city and county personnel may be required at certain times that is concurrent with the work being done under this contract.

The following contract is anticipated to be under construction within the time period of this contract, and includes necessary work found in Stage 2 and Stage 4 under Prosecution and Progress in this contract unless otherwise indicated:

ID 1000-13-71

Notify the engineer two weeks in advance of completion of each stage so the engineer can coordinate with project 1000-13-71.

10. Railroad Insurance and Coordination (UP).

A Description

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

A.1 Railroad Insurance Requirements

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

Notify evidence of the required coverage, and duration to Chrjs Keckeisen, Engineer – Public Project, 101 North Wacker Drive, Suite 1920, Chicago, IL 60606, telephone 402-544-5131, email Chris T. Keckeisen (CTKECKEI@UP.COM).

Include the following information on the insurance document:

- Project ID: 1000-20-71
- Project Location: Milwaukee, WI
- Route Name: STH 100, Mayfair Road
- Crossing ID: 177 258H
- Railroad Subdivision: Milwaukee
- Railroad Milepost: 90.29
- Work Performed: Roadway Project will be installing sign bridge along with traffic control.

A.2 Work by Railroad

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

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

Contact: Chris T. Kecheisen – Industry & Public Projects Engineering Department, 101 North Wacker Drive, Suite 1920, Chicago, IL 60606, telephone 312-777-2043, email Chris T. Keckeisen (CTKECKEI@UP.COM) for consultation on railroad requirements during construction.

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

A.4 Temporary Grade Crossing

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

A.5 Train Operation

Approximately 14 through freight trains operate daily through the construction site. Through freight trains operate at 30 mph. In addition to through movements there are switching movements at slower speed.

11. Railroad Insurance and Coordination - Soo Line Railroad Company (CP).

A Description

Comply with standard spec 107.17 for all work affecting Soo Line Railroad (CP) property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Soo Line Railroad Company d/b/a Canadian Pacific.

Notify evidence of the required coverage, and duration to Canadian Pacific Railway Company at Canadian Pacific Plaza 120 South 6th Street, Suite 700, Minneapolis, MN 55402, Attention Jim Krieger.

Include the following information on the insurance document:

- Project ID: 1000-20-71
- Project Location: Milwaukee, WI
- Route Name: IH 94, Marquette Interchange
- Crossing ID: 386 497J
- Railroad Subdivision: Watertown
- Railroad Milepost: 86
- Work Performed near crossing: Traffic Control

A.2 Work by Railroad

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

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

Jim Krieger, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail jim_krieger@cpr.ca for consultation on railroad requirements during construction.

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

Flagging Contact

Dave LeClaire, Supervisor of Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4556; E-mail dave.leclaire@cpr.ca Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

* Contact Soo Line (CP) prior to letting for flagman work hour availability.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact CP Call Before You Dig line at (866) 291-0741, five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Soo Line (CP) will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Temporary Grade Crossing

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

A.5 Train Operation

Approximately 2 passenger trains and 24-26 through freight trains operate daily through the construction site. Passenger trains operate at up to 50 mph. Through freight trains operate at up to 50 mph. In addition to through movements there are switching movements at slower speed.

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Frank Pritzlaff at (262) 548-5683. Post the permit in a conspicuous place at the construction site.

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13. Erosion Control.

Add the following to standard spec 107.20:

The contractor shall prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering according to Chapter TRANS 401 requirements. The ECIP shall supplement information shown on the plans and shall not reproduce it. The ECIP will identify how the contractor intends to implement the project's erosion control plan.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison, Ms. Kristina Betzold, (414) 263-8517, Kristina.Betzold@wisconsin.gov, 2300 N Martin Luther King Dr, Milwaukee, WI 53212. Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

The ECIP should detail how these devices will be implemented for any disturbed areas. Additional devices may be needed based on field conditions and as directed by DNR and engineer.

All disturbed areas should be adequately protected and restored as soon as feasible. Any disturbed area that will not be 're-worked' for 14 days or more should be temporary seeded or matted to prevent erosion into adjacent waterways or wetlands. Any 'release' of sediment-laden water from the work site that enters a wetland or waterway should be reported to the DNR liaison within 24 hours.

Dust generated by project activities shall be control to the maximum extent practicable through water or chemical methods for the preparation of the roadway surface for the polymer overlay and the application of the polymer overlay. The contractor shall provide a plan for controlling dust, which should include a plan for the above and for cleaning sediment tracked from the project site from active roadway surfaces, which commonly generates dust.

The work area for the high mast lighting is very moist and contains wetlands. Prior to excavating for high mast foundations, get approval from the engineer for locations of the new foundations. Additionally, use of heavy equipment causing rutting should be avoided. Use tracking mats whenever possible. The entire work area needs to be restored and approved by the engineer prior to final contract payment.

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

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

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

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

14. Material and Equipment Staging.

Submit a map showing all proposed material stockpile or equipment storage locations to the engineer 14 days prior to either preconstruction or proposed use, whichever comes first. Identify the specific purposes for the location. Obtain written permits from the property owner and submit two copies to the engineer before use. Do not stockpile or store materials or equipment on wetlands.

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15. Removing High Mast Lighting Tower L-40-34, Item 204.9060.S.01; Removing High Mast Lighting Tower L-40-35, Item 204.9060.S.02; Removing High Mast Lighting Tower L-40-36, Item 204.9060.S.03; Removing High Mast Lighting Tower L-40-37, Item 204.9060.S.04; Removing High Mast Lighting Tower L-40-38, Item 204.9060.S.05; Removing High Mast Lighting Tower L-40-39, Item 204.9060.S.06; Removing High Mast Lighting Tower L-40-40, Item 204.9060.S.07.

A Description

The work under this item consists of removing high mast lighting towers, including pole shaft, luminaires, luminaire lamps, tenons and lowering rings as shown on the plans, according to the pertinent provisions of standard spec 204, and as hereinafter provided.

B (Vacant)

C Construction

Removed high mast lighting towers including pole shaft, luminaires, luminaire lamps, tenons, and lowering rings becomes the property of the contractor and shall be dispose of off the project site. Luminaire lamps, which are considered a hazardous material, shall be disposed of in an environmentally sound manner.

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. Structural and electrical inspection and approval by the engineer will take place before any associated proposed permanent or temporary lighting is approved for operation.

All materials shall be removed as described in this specification and as directed by the engineer. The disposal of removed item shall be done according to pertinent requirements of standard spec 203.3.4.

D Measurement

The department will measure Removing High Mast Lighting Tower by each unit, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.9060.S.01	Removing High Mast Lighting Tower L-40-34	EACH
SPV.9060.S.02	Removing High Mast Lighting Tower L-40-35	EACH
SPV.9060.S.03	Removing High Mast Lighting Tower L-40-36	EACH
SPV.9060.S.04	Removing High Mast Lighting Tower L-40-37	EACH
SPV.9060.S.05	Removing High Mast Lighting Tower L-40-38	EACH
SPV.9060.S.06	Removing High Mast Lighting Tower L-40-39	EACH
SPV.9060.S.07	Removing High Mast Lighting Tower L-40-40	EACH

Payment is full compensation for removing the high mast lighting towers including high mast shaft, luminaires, luminaire lamps, tenons and lowering rings; and for disposal.

16. 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 of 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.

17. Field Office.

Due to the dispersed nature of work locations on this contract, a field office is not required for this project. 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.

18. 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.

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 SPV.0105.01 Traffic Control (1000-20-71), 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.

19. High Mast Lighting Tower.

Append standard spec 660.3.1.5 with the following:

In addition, submit all high mast tower shop drawings, calculations and component lists to the Fabrication Library conforming to standard spec 105.2, and to the Bureau of Structures Ancillary Structures Program Manager for inclusion into the Highway Structures Information System.

20. Tension Anchor Rod, Item SPV.0060.01.

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[1].
4. The contractor shall furnish flat washers and heavy hex nuts conforming to Standard spec 641.2.2.3. Existing jam nuts[1] may be reused.
5. Remove rodent screen[1].
6. Remove and dispose of the grout pad[1] according to standard spec 509.3.4.
7. Tighten all nuts that are loose to snug tight (leveling and top nut). Reference the department's Form DT2321 for snug tight torque values.
8. Contact the department for direction of the top nut is not fully snugged 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[1] 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[1] per step 8 of Form DT2321.
17. Apply two coats of zinc rich primer to any damaged areas of the structure base plates and used jam nuts.
18. Reinstall the rodent screen[1].
19. Complete Form DT2321 for each structure and submit to Jason Zemke (262-548-8734) for transmittal to Bureau of Structures and inclusion in HSIS.

Note[1] – 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.0060.01	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.

21. Remove Grout Pad, Item SPV.0060.02.

A Description

This special provision describes removing grout pads under base plates as shown on the plans, and as hereinafter provided.

B Materials

Furnish cold-applied galvanizing according to "Tension Anchor Rod" Article.

Furnish rodent screen and wire to secure the rodent screen according to the "Replace Rodent Screen" Article.

C Construction

Remove and dispose of the grout pad using air chippers or breakers that weigh no more than 35 pounds and are equipped with flat, chisel-type points with a cutting edge not less than 3/4 inch or greater than 3 inches wide. After reaching the edge of the anchor rods, do not use hammers heavier than 15 pounds within one inch of the steel. Dispose of old concrete and asphaltic patching removed away from the bridge site. Implement necessary procedures to minimize debris dropping into the stream, streambed, roadway, or right-of-way below. If the foundation spalls during removal of grout pad, repair according to 509.3.7 of the standard specification. If excessive areas begin to spall, contact BOS for guidance.

Measure distance from top of concrete to bottom of leveling nut. If the distance is greater than the diameter of the anchor rod, contract the department for further instruction.

Thoroughly clean the existing anchor rods and leveling nuts below the base plate, roughen the surface on the anchor rods and apply cold-galvanizing to the anchor rods and leveling nuts.

Install a rodent screen according to the Replace Rodent Screen Article if electrical devices are installed on the structure.

D Measurement

The department will measure Remove Grout Pad by each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Remove Grout Pad	EACH

Payment is full compensation for removing and disposing of the grout pad; cleaning and applying cold-galvanizing; and for providing and installing a rodent screen.

22. Remove Debris and Regrade, Item SPV.0060.03.

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.0060.03	Remove Debris and Regrade	EACH

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

23. Replace Rodent Screen, Item SPV.0060.04.

A Description

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

B Materials

Furnish galvanized or stainless welded 23-gauge steel mesh, with ¼" max. opening. 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 standard specifications and as shown in the plans. Replace the deteriorated 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.0060.04	Replace Rodent Screen	EACH

Payment is full compensation for replacing rodent screen; and for removing and properly disposing of existing materials being replaced.

24. Abandon High Mast Foundation, Item SPV.0060.06.

A Description

This special provision describes abandoning high mast tower concrete foundations.

B (Vacant)

C Construction

Conform to standard spec 204.3. Coordinate with the engineer concerning construction around each high mast tower concrete foundation and abandon each foundation as directed by the engineer. At bases to be abandoned, burn off existing high mast anchor rods flush to the base. Dispose of materials off the site and leave the existing foundation in place.

D Measurement

The department will measure Abandoning High Mast Foundation as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Abandon High Mast Foundation	EACH

Payment is full compensation conforming to standard spec 204.5.1 (2).

25. Replace Truss Member, Item SPV.0060.07.

A Description

This special provision describes replacing a truss member 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. The angle shall be 1.5” x 1.5” x 0.25” angle size and field verify member length to replace the missing or damaged truss member.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641, CMM 5-20.6.5.4.2, and as shown in the plans. New members should be galvanized prior to installation. Galvanizing should be ground off at connection locations on new member and locations on existing truss to be welded. Follow SPV.0105.01 Repair Galvanized Coating for procedures to repair galvanizing, this is incidental to Replace Truss Member item.

Existing members that are damaged and/or deformed are to be removed prior to installation of new member. Care must be taken to not damage chords or other truss members during removal. Existing welds must be ground smooth prior to installing new members.

D Measurement

The department will measure Replace Truss Member as each individual truss member, 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 Truss Member	EACH

Payment is full compensation for replacing truss member as well as the necessary connection bolts; for removing and properly disposing of existing materials being replaced; and for fabricating, handling, transporting, and erecting.

26. Tension Structural Connection Bolt (Friction), Item SPV.0060.08.

A Description

This special provision describes replacing splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolt as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641, 657 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 with a new bolt to properly tension the bolt. 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 connections. Washers are **not** to be placed between faying surfaces. If present, lock washers and washers between faying surfaces must be removed and discarded.
4. The contractor shall furnish bolts, flat washers, heavy hex nuts, shims, and DTI's conforming to standard spec 641.
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 and follow the remaining procedure. Existing bolts, nuts washers, and shims shall be discarded.
8. Install the new bolt to snug tight.
9. Repeat steps 7 and 8 until all bolts have been replaced. Ensure there are no gaps in the faying surface after all bolts have been replaced. If gaps are present, contact central office contact on DT form.
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.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or 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 licensed in Wisconsin, and shall be submitted to the engineer and BOS for permanent record.

D Measurement

The department will measure Tension Structural Connection Bolt (Friction) as each individual 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	Tension Structural Connection Bolt (Friction)	EACH

Payment is full compensation for replacing all necessary splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

27. Tighten Connection Bolt (Non-Friction), Item SPV.0060.09.

A Description

This special provision describes replacing and tightening connection bolts at post-to-truss and mast arm connection as shown on the plans, and as hereinafter provided. These connections are not designed as tensioned connections. As such, bolts are installed in a snug tight condition. Attempting to fully tension these connections could result in damage.

B Materials

Furnish materials that are according to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641, 657 and as shown in the plans. Replace all bolts and nuts which are loose, missing, corroded, stripped or otherwise unable to be tightened as required. The contractor shall follow the tightening procedure outlined herein:

1. The contractor shall field verify the size and number of bolts, nuts, and flat washers at each structure to be replaced. Note that some structures are missing washers. Washers are to be installed under the turned element, so the number of washers may change and the lengths of the bolts may need to be increased.
2. The contractor shall furnish bolts, flat washers, and heavy hex nuts, conforming to standard spec 641.
3. Bolts to be replaced shall be removed one at a time in a connection.
4. Tighten bolts which were loose or identified to be replaced to snug tight.
5. Verify all other bolts in connection are also snug tight.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or a connection with six or less bolts, the truss or mast arm 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 to ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the engineer and BOS for permanent record.

D Measurement

The department will measure Tighten Connection Bolt (Non-Friction) as each individual connection bolt, acceptably tightened.

E Payment

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

ITEM NUIMBER	DESCRIPTION	UNIT
SPV.0060.09	Tighten Connection Bolt (Non-Friction)	EACH

Payment is full compensation for replacing and tightening connection bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

28. Secure/Replace Cap, Item SPV.0060.10.

A Description

This special provision describes securing or replacing missing or deteriorated chord, post and miscellaneous 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 657 and as shown in the plans. Contractor to field verify size of chord, post and miscellaneous caps to be replaced.

C Construction

Use construction methods that are according to the pertinent provisions of standard spec 641 and 657 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 Cap as each individual 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.0060.10	Secure/Replace Cap	EACH

Payment is full compensation 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.

29. Replace U-Bolt, Item SPV.0060.11.

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, WisDOT Sign Plate Manual Detail A4-7 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.0060.11	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; for fabricating, handling, transporting, and erecting.

30. Remove Nesting Debris, Item SPV.0060.12.

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 Remove 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.0060.12	Remove 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.

31. Slotted Hole Repair On Sign Support Bracket, Item SPV.0060.13.

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 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.0060.13	Slotted Hole Repair on Sign Support Bracket	EACH

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

32. Replace Type II Sign Support Bracket, Item SPV.0060.14.

A Description

This special provision describes replacing the damaged or missing type II sign support brackets as shown on the plans, and as hereinafter provided.

B Materials

Furnish type II sign bracket assembly materials for overhead signs support that are according to standard spec 637 and which are on the department's approved product list and as shown in the plans.

C Construction

Take down the existing sign panel and remove the existing support bracket and properly dispose of the bracket assembly. Use construction methods that are according to standard specs 637 and 641 and as shown in the plans. Provide torque requirement and other installation instructions to the Region. All bolts, nuts, washers or miscellaneous items required to replace the damaged or deteriorated sign bracket will be considered incidental to this item. If an existing sign is to be re-installed, the installation of the sign is incidental to Replace Type II Sign Support Bracket.

D Measurement

The department will measure Replace Type II Sign Support Bracket as each individual assembly, 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.0060.14	Replace Type II Sign Support Bracket	EACH

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

33. Install ID Plaque, Item SPV.0060.15.

A Description

This special provision describes installing sign, signal and high mast light ID plaques as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are according to SDD Identification Plaques Underdeck and High Mast Lighting and SDD Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Supports and Traffic Signals as required by structure type.

C Construction

Install the sign bridge ID plaque according to SDD Identification Plaques Underdeck and High Mast Lighting and SDD Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Supports and Traffic Signals as required by structure type. Miscellaneous hardware required to securely install the ID plaque will be considered incidental to this item.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	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.

34. Install Sign Panel Connector, Item SPV.0060.16.

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.0060.16	Install Sign Panel Connector	EACH

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

35. Secure Sign Type II, Item SPV.0060.17.

A Description

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

B Materials

Funish 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.0060.17	Secure Sign 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; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

36. Secure Luminaire Cover, Item SPV.0060.18.

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.0060.18	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.

37. Install Conduit Plug, Item SPV.0060.19.

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.0060.19	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.

38. Secure/ Replace Handhole Cover, Item SPV.0060.20.

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.0060.20	Secure/ Replace Handhole Cover	EACH

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

39. Traffic Control (1000-20-71), Item SPV.0105.01.

A Description

This special provision describes providing, maintaining, repositioning, and removing temporary traffic control devices according to standard spec 643, as shown in the plans, and as directed by the engineer.

B Materials

Conform to standard spec 643.2.

C Construction

Conform to standard spec 643.3.

D Measurement

The department will measure Traffic Control (1000-20-71) bid items by the lump sum, 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	Traffic Control (1000-20-17)	LS

40. 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

Repair all zinc coating that is chipped or damaged or as otherwise noted by plans or the engineer by metallizing according to ASTM A780. Thoroughly clean the places receiving coating before applying the new coating.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	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.

PLEASE ATTACH SCHEDULE OF ITEMS HERE

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

May 20, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #03: 1000-20-71
Sign Bridge Repair & Replacement 2019
Locations on Stn Per Annual Plan
Var-Hwy
Southeast Region Wide

Letting of June 11, 2019

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

Schedule of Items:

The Schedule of Items was inadvertently omitted from the proposal. This addendum adds the schedule of items. There was no quantity changes in this addendum.

Schedule of Items
Attached, dated May 20, 2019, are the revised Schedule of Items Pages 1 – 4.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman
Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

Proposal ID: 20190611003 Project(s): 1000-20-71

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. High Mast Lighting Tower L-40-34	1.000 EACH	_____._____	_____._____
0004	204.9060.S Removing (item description) 02. High Mast Lighting Tower L-40-35	1.000 EACH	_____._____	_____._____
0006	204.9060.S Removing (item description) 03. High Mast Lighting Tower L-40-36	1.000 EACH	_____._____	_____._____
0008	204.9060.S Removing (item description) 04. High Mast Lighting Tower L-40-37	1.000 EACH	_____._____	_____._____
0010	204.9060.S Removing (item description) 05. High Mast Lighting Tower L-40-38	1.000 EACH	_____._____	_____._____
0012	204.9060.S Removing (item description) 06. High Mast Lighting Tower L-40-39	1.000 EACH	_____._____	_____._____
0014	204.9060.S Removing (item description) 07. High Mast Lighting Tower L-40-40	1.000 EACH	_____._____	_____._____
0016	509.1500 Concrete Surface Repair	4.000 SF	_____._____	_____._____
0018	619.1000 Mobilization	1.000 EACH	_____._____	_____._____
0020	625.0500 Salvaged Topsoil	200.000 SY	_____._____	_____._____
0022	628.1504 Silt Fence	70.000 LF	_____._____	_____._____
0024	628.1520 Silt Fence Maintenance	70.000 LF	_____._____	_____._____
0026	628.2002 Erosion Mat Class I Type A	200.000 SY	_____._____	_____._____
0028	628.7560 Tracking Pads	20.000 EACH	_____._____	_____._____
0030	630.0171 Seeding Mixture No. 70A	5.000 LB	_____._____	_____._____

Proposal ID: 20190611003 Project(s): 1000-20-71

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	637.2220 Signs Type II Reflective SH	188.000 SF	_____._____	_____._____
0034	638.2602 Removing Signs Type II	3.000 EACH	_____._____	_____._____
0036	660.0100 High Mast Foundation (location) 01. L-40-123	LS	LUMP SUM	_____._____
0038	660.0100 High Mast Foundation (location) 02. L-40-124	LS	LUMP SUM	_____._____
0040	660.0100 High Mast Foundation (location) 03. L-40-125	LS	LUMP SUM	_____._____
0042	660.0100 High Mast Foundation (location) 04. L-40-126	LS	LUMP SUM	_____._____
0044	660.0100 High Mast Foundation (location) 05. L-40-127	LS	LUMP SUM	_____._____
0046	660.0100 High Mast Foundation (location) 06. L-40-128	LS	LUMP SUM	_____._____
0048	660.0100 High Mast Foundation (location) 07. L-40-129	LS	LUMP SUM	_____._____
0050	660.0200 High Mast Lighting Tower (location) 01. L-40-123	LS	LUMP SUM	_____._____
0052	660.0200 High Mast Lighting Tower (location) 02. L-40-124	LS	LUMP SUM	_____._____
0054	660.0200 High Mast Lighting Tower (location) 03. L-40-125	LS	LUMP SUM	_____._____
0056	660.0200 High Mast Lighting Tower (location) 04. L-40-126	LS	LUMP SUM	_____._____

Proposal ID: 20190611003 Project(s): 1000-20-71

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
0058	660.0200 High Mast Lighting Tower (location) 05. L-40-127	LS	LUMP SUM	_____.____
0060	660.0200 High Mast Lighting Tower (location) 06. L-40-128	LS	LUMP SUM	_____.____
0062	660.0200 High Mast Lighting Tower (location) 07. L-40-129	LS	LUMP SUM	_____.____
0064	SPV.0060 Special 01. Tension Anchor Rod	158.000 EACH	_____.____	_____.____
0066	SPV.0060 Special 02. Remove Grout Pad	4.000 EACH	_____.____	_____.____
0068	SPV.0060 Special 03. Remove Debris and Regrade	8.000 EACH	_____.____	_____.____
0070	SPV.0060 Special 04. Replace Rodent Screen	7.000 EACH	_____.____	_____.____
0072	SPV.0060 Special 06. Abandon High Mast Foundation	7.000 EACH	_____.____	_____.____
0074	SPV.0060 Special 07. Replace Truss Member	3.000 EACH	_____.____	_____.____
0076	SPV.0060 Special 08. Tension Structural Connection Bolt (Friction)	88.000 EACH	_____.____	_____.____
0078	SPV.0060 Special 09. Tighten Connection Bolt (Non-Friction)	4.000 EACH	_____.____	_____.____
0080	SPV.0060 Special 10. Secure/Replace Cap	2.000 EACH	_____.____	_____.____
0082	SPV.0060 Special 11. Replace U-Bolt	3.000 EACH	_____.____	_____.____
0084	SPV.0060 Special 12. Remove Nesting Debris	1.000 EACH	_____.____	_____.____
0086	SPV.0060 Special 13. Slotted Hole Repair On Sign Support Bracket	3.000 EACH	_____.____	_____.____

Proposal ID: 20190611003 Project(s): 1000-20-71

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
0088	SPV.0060 Special 14. Replace Type II Sign Support Bracket	17.000 EACH	_____._____	_____._____
0090	SPV.0060 Special 15. Install ID Plaque	2.000 EACH	_____._____	_____._____
0092	SPV.0060 Special 16. Install Sign Panel Connector	10.000 EACH	_____._____	_____._____
0094	SPV.0060 Special 17. Secure Sign Type II	2.000 EACH	_____._____	_____._____
0096	SPV.0060 Special 18. Secure Luminaire Cover	2.000 EACH	_____._____	_____._____
0098	SPV.0060 Special 19. Install Conduit Plug	1.000 EACH	_____._____	_____._____
0100	SPV.0060 Special 20. Secure/Replace Handhole Cover	1.000 EACH	_____._____	_____._____
0102	SPV.0105 Special 01. Traffic Control (1000-20-71)	 LS	 LUMP SUM	 _____._____
0104	SPV.0165 Special 01. Repair Galvanized Coating	7.000 SF	_____._____	_____._____

Section: 0001 Total: _____._____

Total Bid: _____._____

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

June 4, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #03: 1000-20-71
Sign Bridge Repair & Replacement 2019
Locations on Stn Per Annual Plan
Var-Hwy
Southeast Region Wide

Letting of June 11, 2019

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
16	Signs Type I and II

Added Special Provisions	
Article No.	Description
41	Replace Type II Sign Support Bracket With Aluminum I Beam, Item SPV.0060.21

Deleted Special Provisions	
Article No.	Description
32	Replace Type II Sign Support Bracket, Item SPV.0060.14

Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0060.21	Replace Type II Sign Support Bracket With Aluminum I Beam	Each	0	17	17

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0060.14	Replace Type II Sign Support Bracket	Each	17	-17	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
28,35, 42,43,44,51,57,58,59,61,62,63,78,79,81	Remove and replace sheets in their entirety to reflect the use of aluminum I Beams to affix Type II signs.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

1000-20-71

June 4, 2019

Special Provisions

16. Signs Type I and II.

Replace entire article language with the following:

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 of 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 use aluminum I Beams.

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.

32. DELETED.

41. Replace Type II Sign Support Bracket With Aluminum I Beams, Item SPV.0060.21.

A Description

This special provision describes replacing the damaged or missing type II sign support brackets as shown on the plans, and as hereinafter provided.

B Materials

Furnish Aluminum I Beams (I5 X 3.7) & 4 Bolts for Type II Signs for overhead signs support that are according to standard spec 637 and which are on the department's approved product list and as shown in the plans.

C Construction

Take down the existing sign panel and remove the existing support bracket and properly dispose of the bracket assembly. Use construction methods that are according to standard specs 637 and 641 and as shown in the plans. Provide torque requirement and other installation instructions to the Region. All bolts, nuts, washers or miscellaneous items required to replace the damaged or deteriorated sign bracket with 2 I Beams per sign will be considered incidental to this item. If an existing sign is to be re-installed, the installation of the sign is incidental to Replace Type II Sign Support Bracket with Aluminum I Beams.

D Measurement

The department will measure Replace Type II Sign Support Bracket With Aluminum I Beams each individual assembly, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Replace Type II Sign Support Bracket With Aluminum I Beams	EACH

Payment is full compensation for replacing sign type II sign support bracket with new aluminum I Beams and U Bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for handling, transporting, and erecting.

Schedule of Items

Attached, dated June 4, 2019, are the revised Schedule of Items Page 4.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 28,35, 42,43,44,51,57,58,59,61,62,63,78,79, and 81.

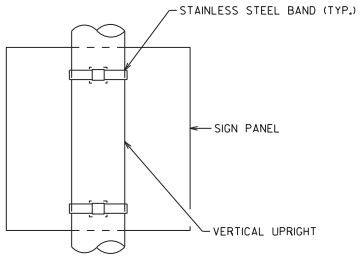
END OF ADDENDUM

STATE PROJECT NUMBER
1000-20-71

**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

TABLE OF ESTIMATED QUANTITIES FOR SIGNS **

STRUCTURE NUMBER	SIGNS TYPE II REFLECTIVE SH	REMOVING SIGNS TYPE II	SLOTTED HOLE REPAIR ON SIGN SUPPORT BRACKET	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I BEAM	INSTALL ID PLAQUE	INSTALL SIGN PANEL CONNECTOR	SECURE SIGN TYPE II
	637.2220	638.2602	SPV.0060.13	SPV.0060.14	SPV.0060.15	SPV.0060.16	SPV.0060.17
	SF	EACH	EACH	EACH	EACH	EACH	EACH
S300253	14			6			
S400150				6			
S400296				4			
S400298	14			4			
S400500	56	1					
S400622				4			
S400901				4			
S400920				4			
S400930				4			
S400931	14			4			
S400933				4			
S400944							1
S450001	45	1					
S450003	45	1					
S640209			3				
S660006						10	
S670228				4			
S670229				2			
S670267				2			
S670414					1		
S670934							1
S670935					1		
TOTAL	188	3	3	52	2	10	2

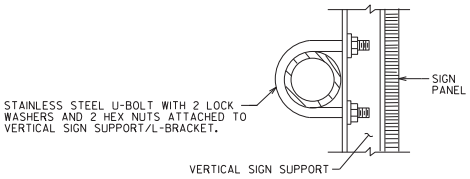


TYPE-II SIGN TO VERTICAL UPRIGHT DETAIL

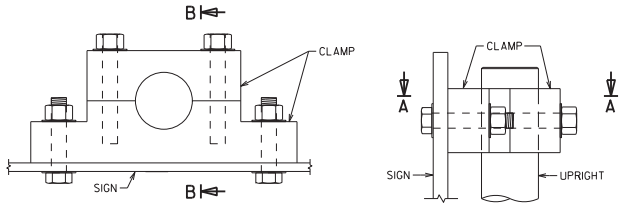
REFER TO SIGN PLATE MANUAL FOR DETAILS (SIGN BANDING DETAILS)

SIGN PANEL NOTES:

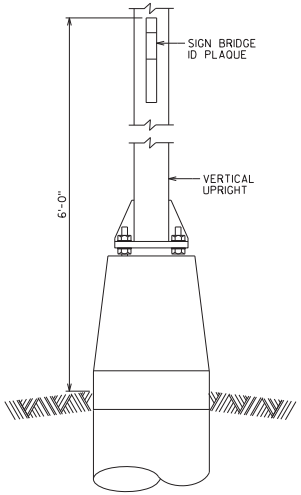
1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO:
   -ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3
   -HEX NUTS ASTM 594
   -WASHERS ASTM A240
   ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER ¾" DIA. AND 12% FOR ¾" ϕ AND SMALLER.



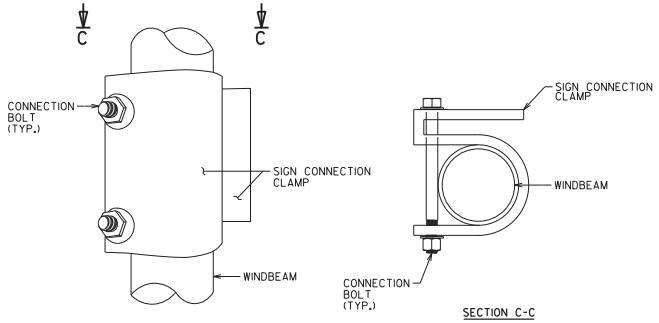
INSTALL U-BOLT & TIGHTEN LOOSE U-BOLT DETAIL



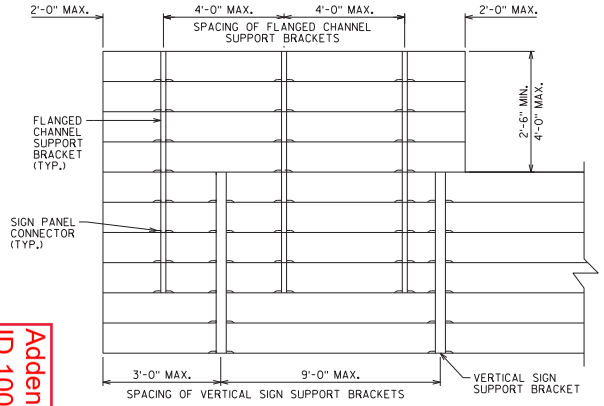
CLAMP DETAILS



SIGN BRIDGE ID PLAQUE



SIGN CONNECTION CLAMP DETAIL (TYPE 2)



FLANGED CHANNEL SUPPORT/VERTICAL SIGN SUPPORT BRACKET DETAILS

William C. Dreher 6/4/19

Addendum No. 02
ID 1000-20-71
Revised Sheet 28
June 4, 2019

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

SIGN PANEL DETAILS 1

SHEET 5

28

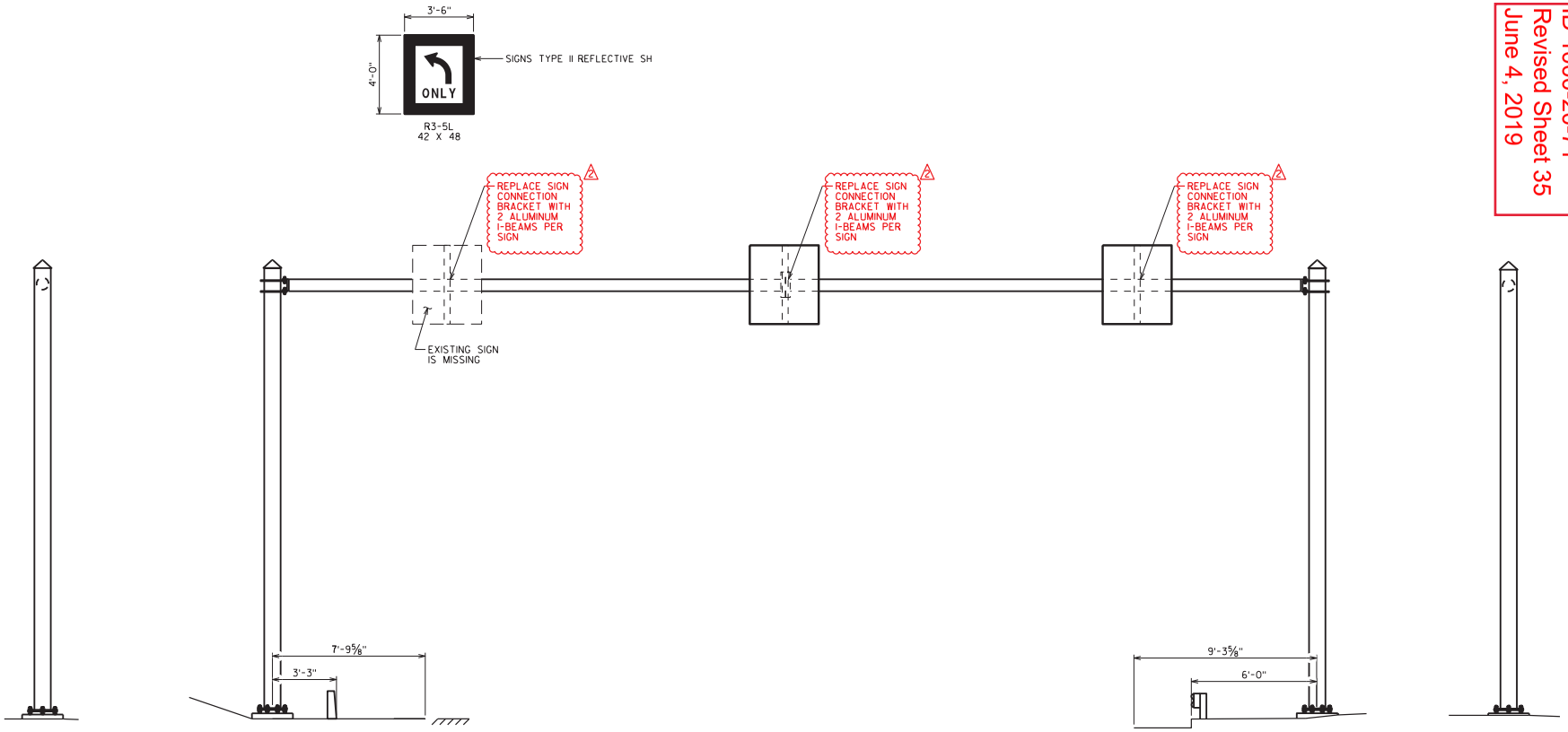
SCALE = 1.00

8

8

STATE PROJECT NUMBER
1000-20-71

Addendum No. 02
ID 1000-20-71
Revised Sheet 35
June 4, 2019



LOOKING WEST

LOOKING SOUTH

LOOKING EAST

8

8

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
637.2220	~~SIGNS TYPE II REFLECTIVE SH~~	~~14 SF~~	5
SPV.00600.19	2 REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	6 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-30-253

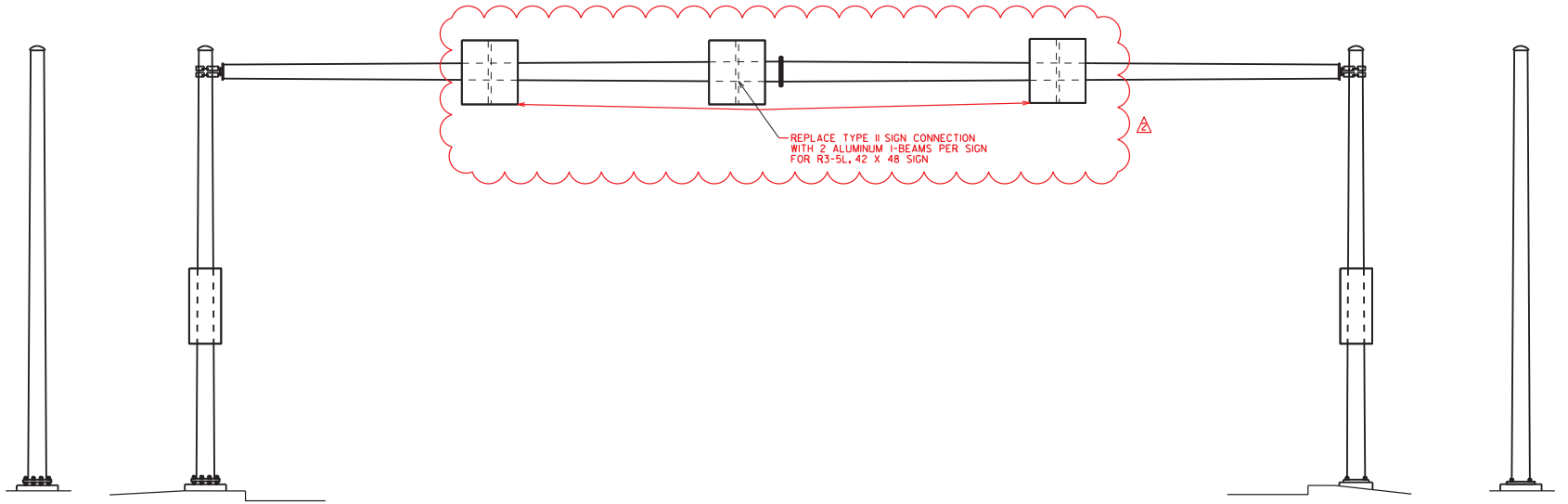
SHEET 12

35

SCALE = 2.75

TO LOCATE FILES IN FILE CABINET SEE S-30-216

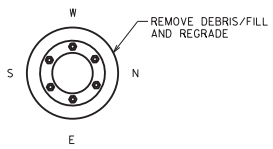
STATE PROJECT NUMBER
1000-20-71



LOOKING EAST

LOOKING NORTH

LOOKING WEST



WEST FOUNDATION DETAIL

Addendum No. 02
ID 1000-20-71
Revised Sheet 42
June 4, 2019

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.03	~~REMOVE DEBRIS AND REGRADE~~	~~1 EACH~~	2
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	6 EACH	5
2			

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-40-150

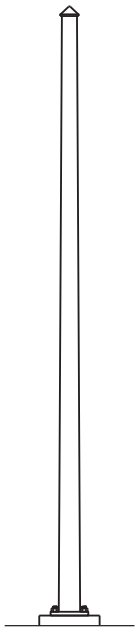
SHEET 19

42

SCALE = 3.50

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



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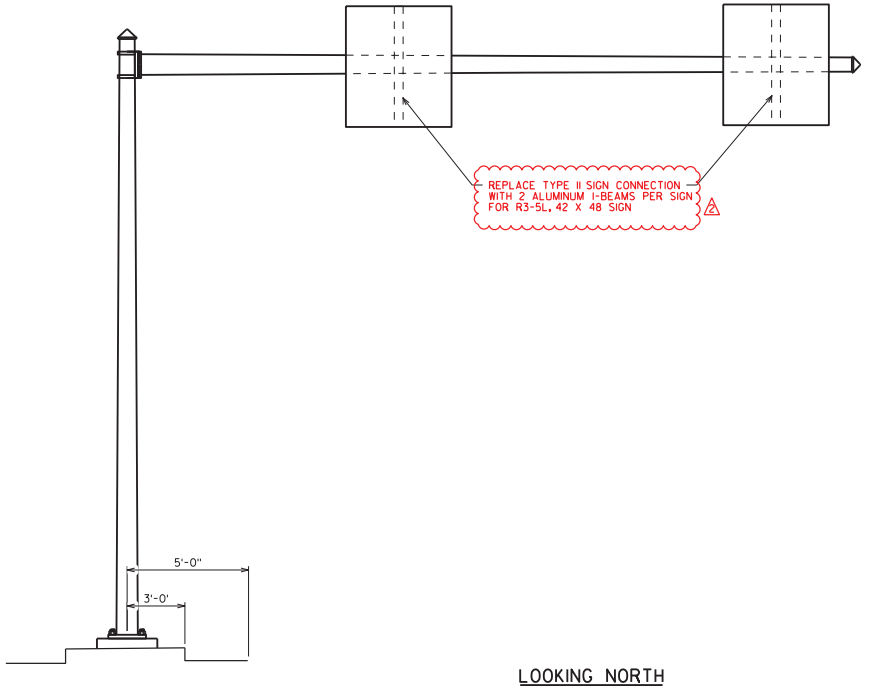


LOOKING NORTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 43
June 4, 2019

8

8

William C. Dreher
6/4/19

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

S-40-296

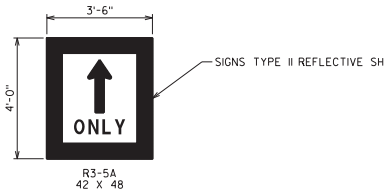
SHEET 20

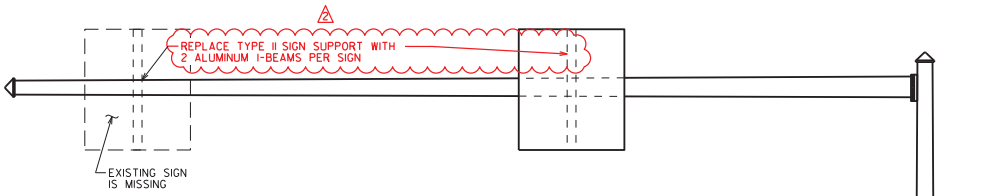
43

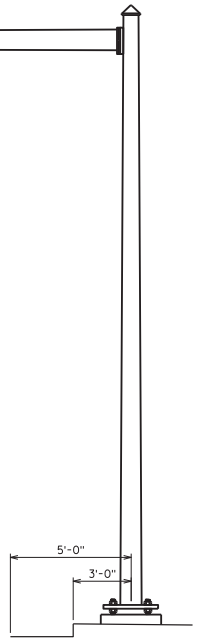
SCALE = 2.00

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71







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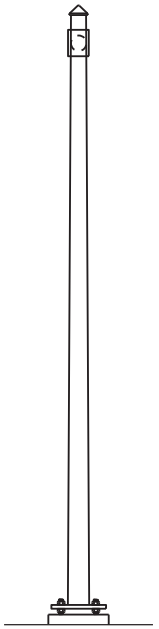


LOOKING EAST

Addendum No. 02
ID 1000-20-71
Revised Sheet 44
June 4, 2019

8

8

William C. Dachel
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
637.2220	~~SIGNS, TYPE II REFLECTIVE SH~~	~~14 SF~~	5
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY: DDS | PLANS CK'D.: SAD

S-40-298

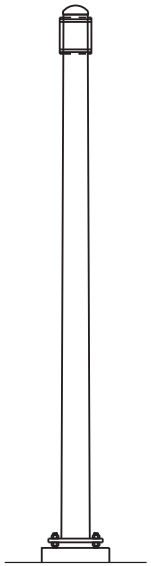
SHEET 21

44

SCALE = 2.00

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



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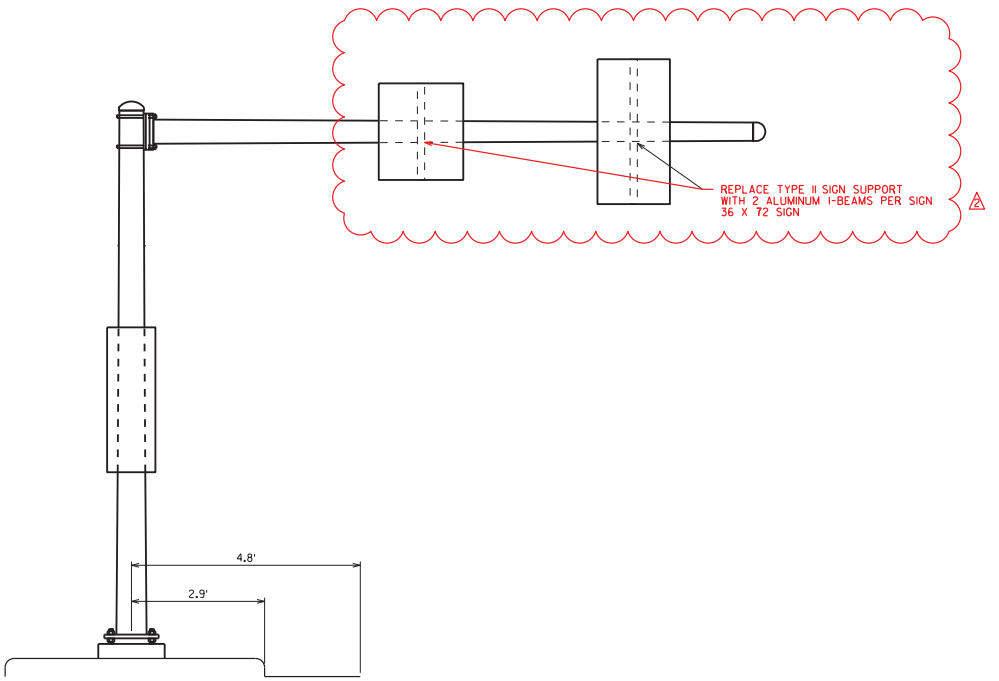


LOOKING WEST

Addendum No. 02
ID 1000-20-71
Revised Sheet 51
June 4, 2019

8

8

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY: DDS | PLANS CK'D.: SAD

S-40-622

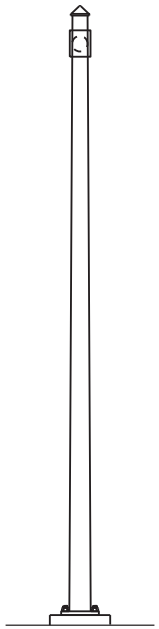
SHEET 28

51

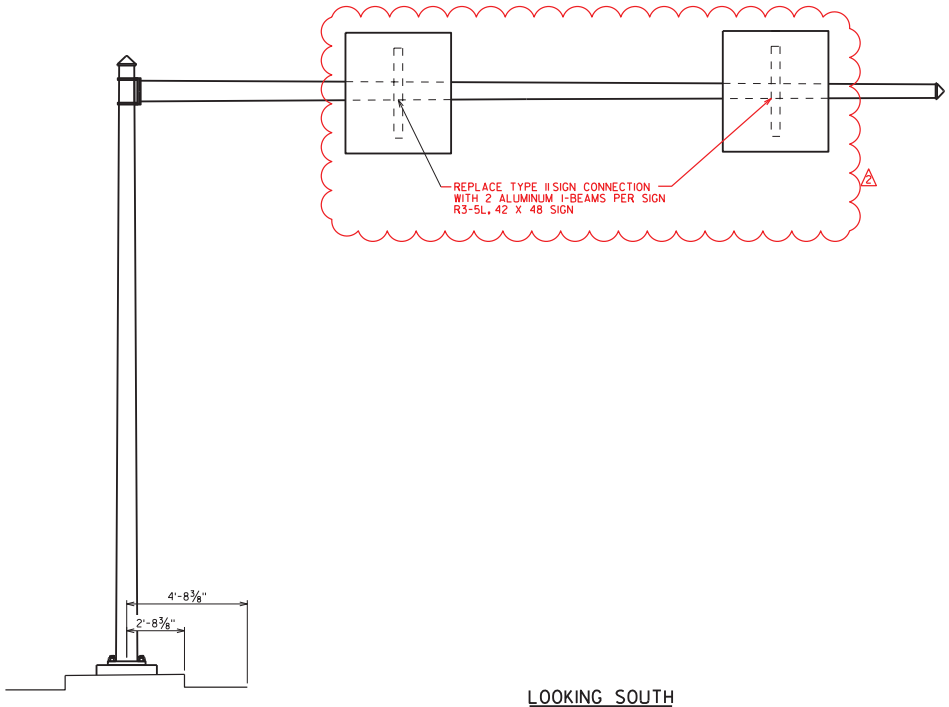
SCALE = 2.50

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



LOOKING WEST



LOOKING SOUTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 57
June 4, 2019

8

8

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-40-901

SHEET 34

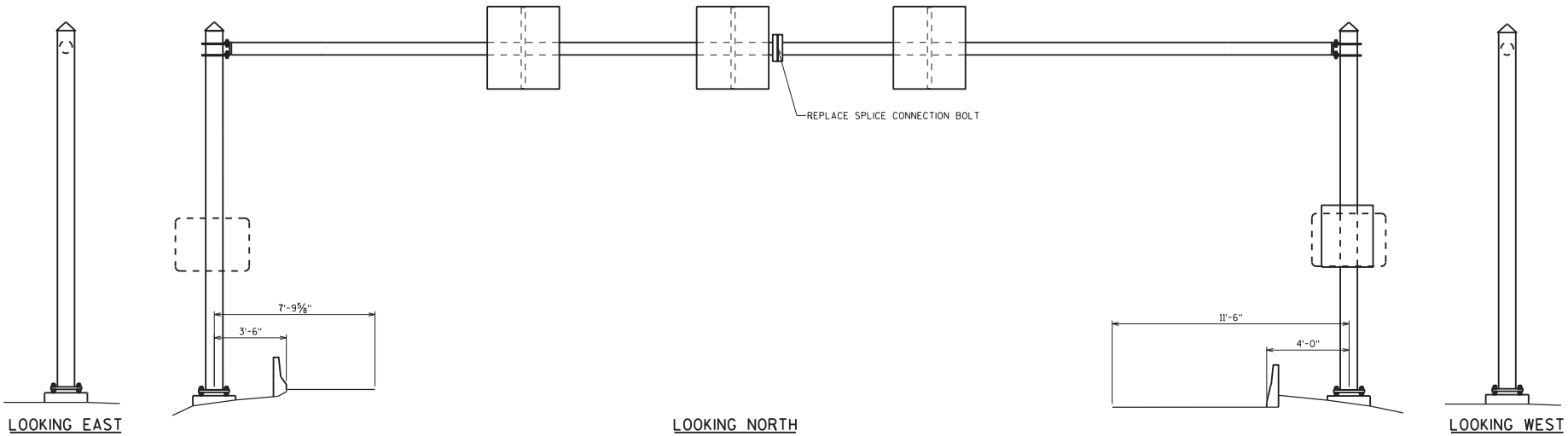
57

SCALE = 2.00

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71

Addendum No. 02
ID 1000-20-71
Revised Sheet 58
June 4, 2019



8

8

William C. Dreher
6/4/19

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-40-911

SHEET 35

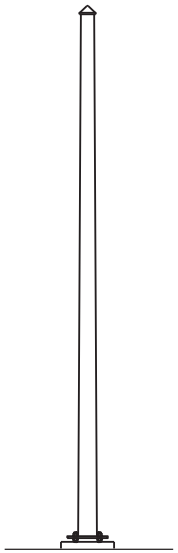
58

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.08	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	6 EACH	3

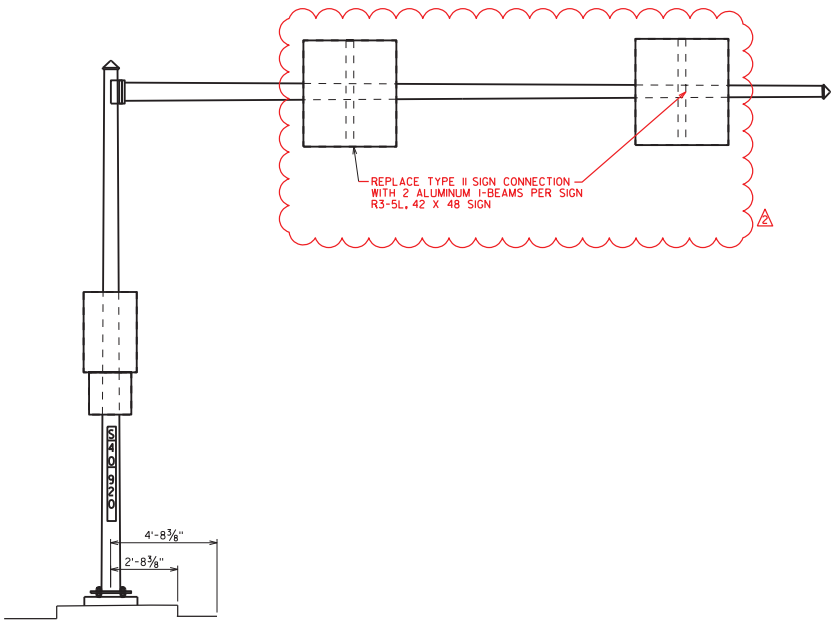
SCALE = 2.50

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



LOOKING EAST



LOOKING NORTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 59
June 4, 2019

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William C. Dreher
6/4/19

NO.	DATE	REVISION	BY
4	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	4 REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

S-40-920

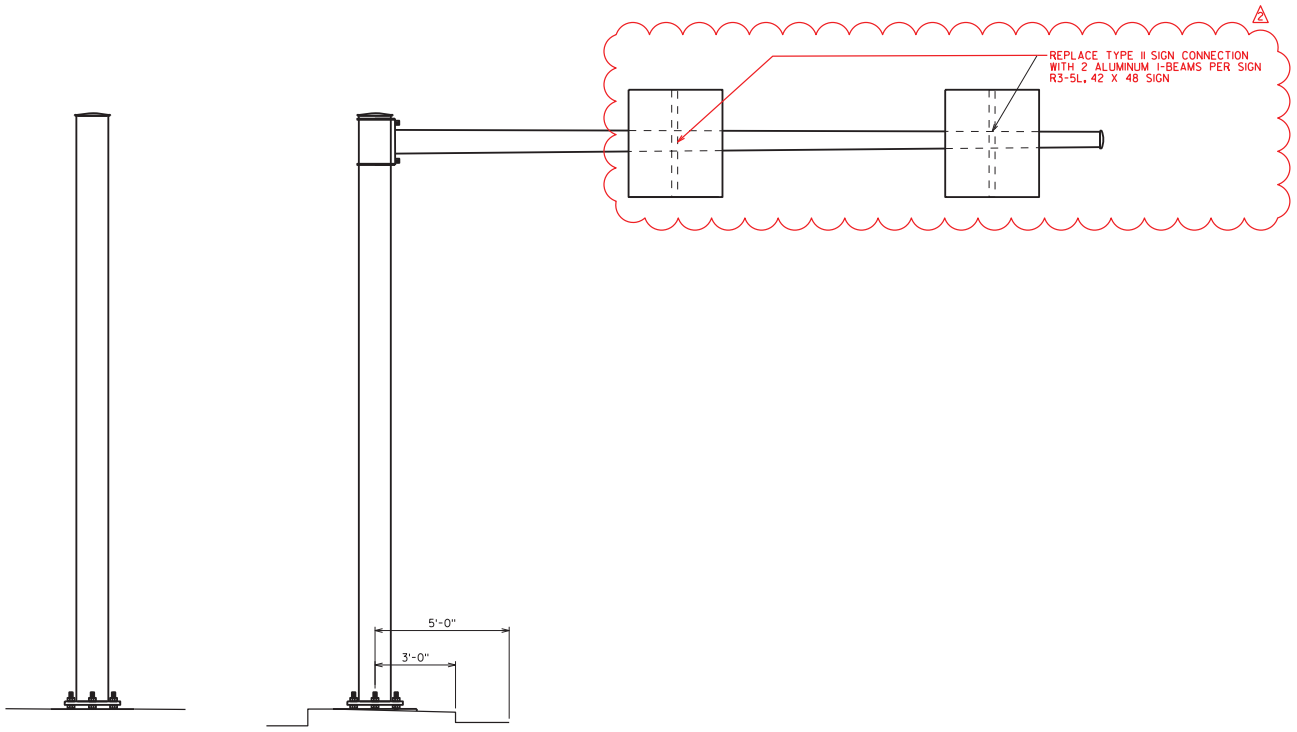
SHEET 36

59

SCALE = 2.50

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



LOOKING WEST

LOOKING SOUTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 61
June 4, 2019

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS A	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
A	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY: DDS | PLANS CK'D.: SAD

S-40-930

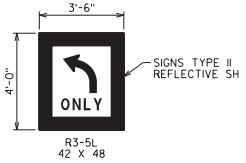
SHEET 38

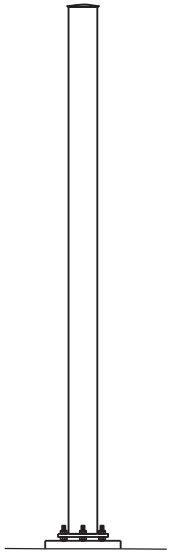
61

SCALE = 2.25

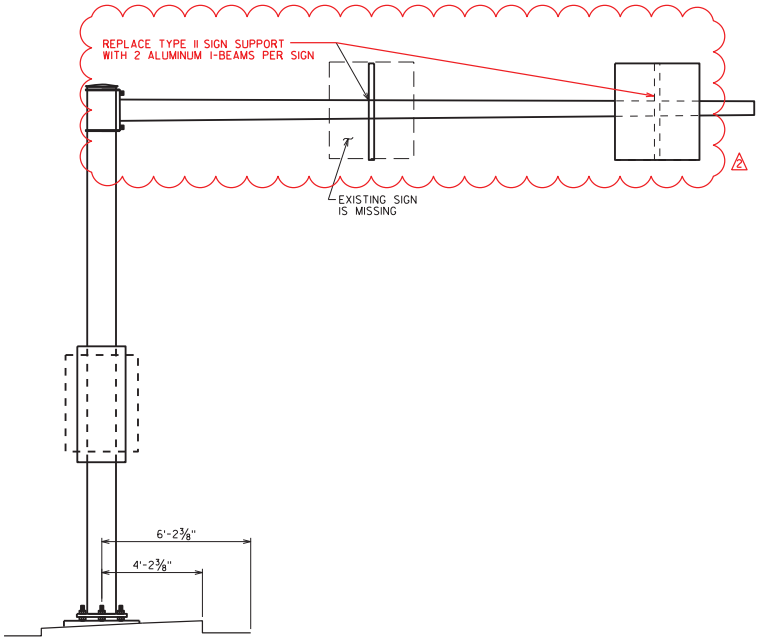
TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71





LOOKING EAST



LOOKING NORTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 62
June 4, 2019

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8

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
637.2220	SIGNS TYPE II REFLECTIVE SH	14 SF	5
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-40-931

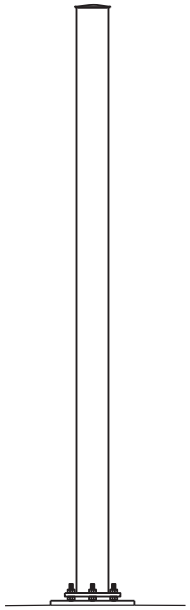
SHEET 39

62

SCALE = 2.50

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



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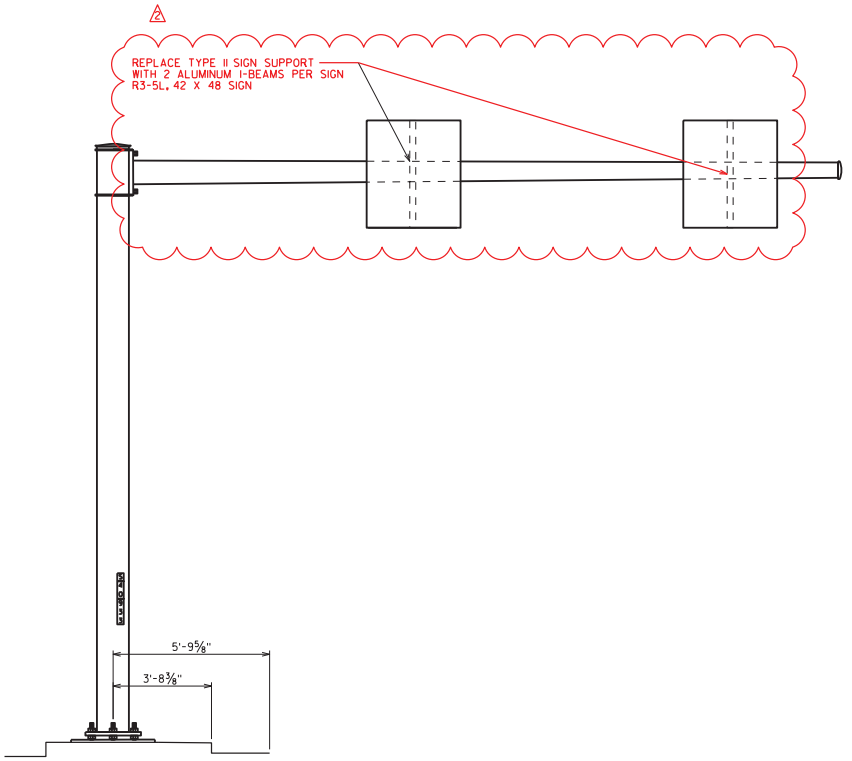

LOOKING NORTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 63
June 4, 2019

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8

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS 2	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-40-933

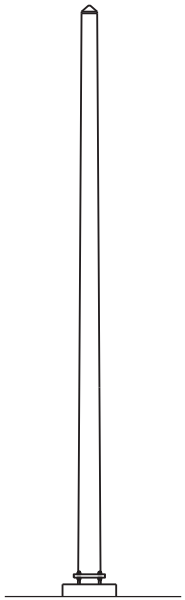
SHEET 40

63

SCALE = 2.25

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



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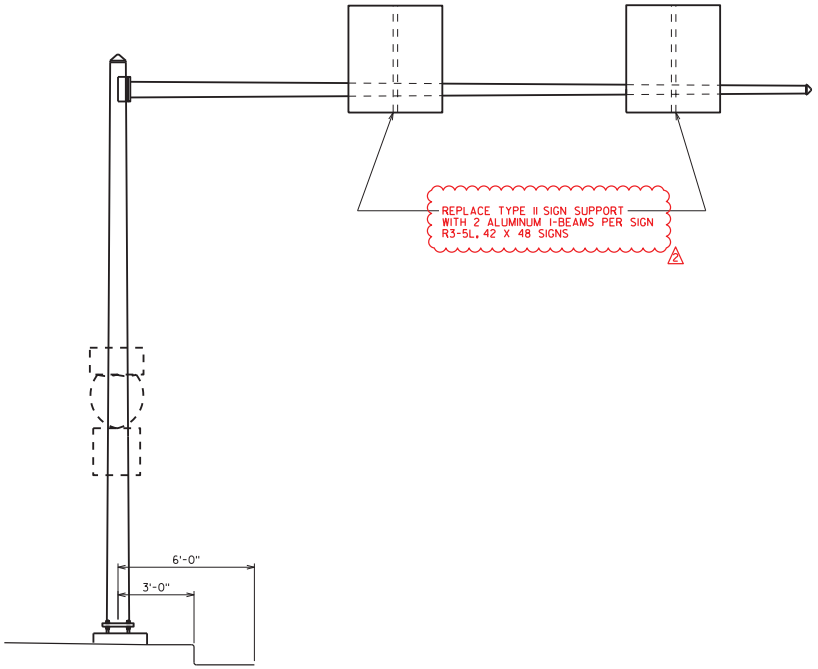


LOOKING SOUTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 78
June 4, 2019

8

8

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS 2	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	4 EACH	5

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-67-228

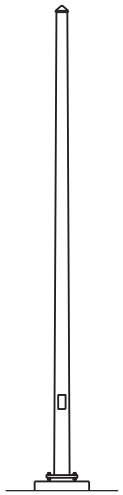
SHEET 55

78

SCALE = 2.25

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



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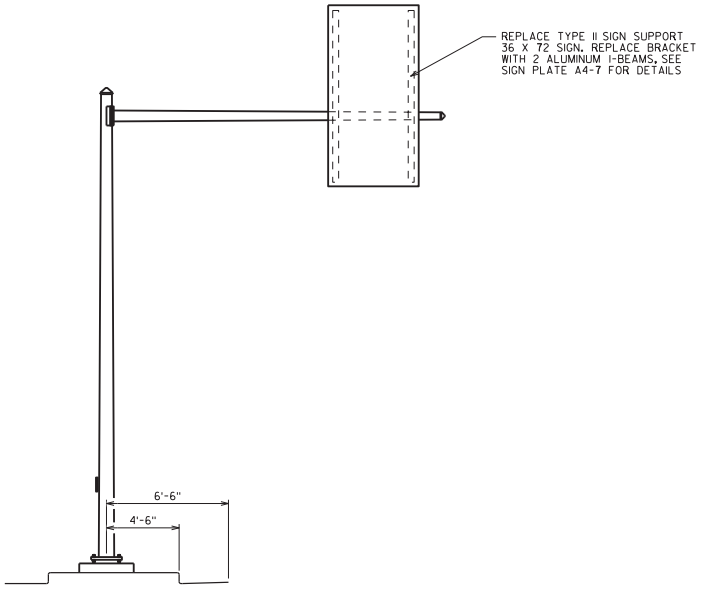

LOOKING SOUTH

Addendum No. 02
ID 1000-20-71
Revised Sheet 79
June 4, 2019

8

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William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	2 EACH	5

NO.	DATE	REVISION	BY
2	5-30-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-67-229

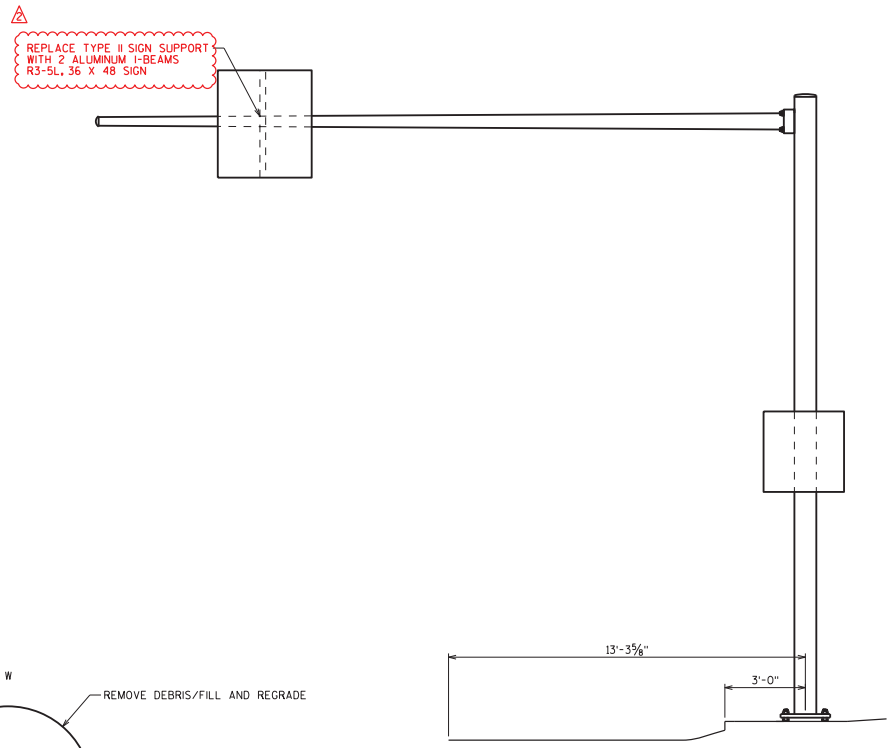
SHEET 56

79

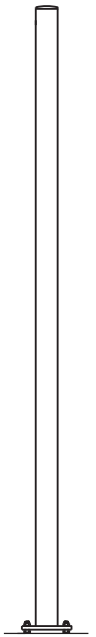
SCALE = 2.00

TO LOCATE FILES IN FILE CABINET SEE S-30-216

STATE PROJECT NUMBER
1000-20-71



LOOKING NORTH



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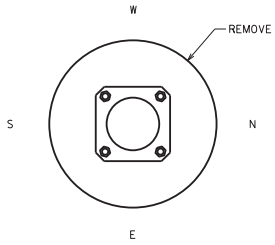

FOUNDATION DETAIL

Addendum No. 02
ID 1000-20-71
Revised Sheet 81
June 4, 2019

William C. Dreher
6/4/19

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.03	REMOVE DEBRIS AND REGRADE	1 EACH	2
SPV.0060.14	REPLACE TYPE II SIGN SUPPORT BRACKET WITH ALUMINUM I-BEAM	2 EACH	5
2			

NO.	DATE	REVISION	BY
2	5-31-19	UDATE BID ITEM AND QTY	SAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE SE SIGN REPAIRS

DRAWN BY DDS | PLANS CK'D. SAD

S-67-267

SHEET 58

81

SCALE = 2.25

TO LOCATE FILES IN FILE CABINET SEE S-30-216

Proposal ID: 20190611003 Project(s): 1000-20-71

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
0090	SPV.0060 Special 15. Install ID Plaque	2.000 EACH	_____._____	_____._____
0092	SPV.0060 Special 16. Install Sign Panel Connector	10.000 EACH	_____._____	_____._____
0094	SPV.0060 Special 17. Secure Sign Type II	2.000 EACH	_____._____	_____._____
0096	SPV.0060 Special 18. Secure Luminaire Cover	2.000 EACH	_____._____	_____._____
0098	SPV.0060 Special 19. Install Conduit Plug	1.000 EACH	_____._____	_____._____
0100	SPV.0060 Special 20. Secure/Replace Handhole Cover	1.000 EACH	_____._____	_____._____
0102	SPV.0105 Special 01. Traffic Control (1000-20-71)	 LS	 LUMP SUM	 _____._____
0104	SPV.0165 Special 01. Repair Galvanized Coating	7.000 SF	_____._____	_____._____
0106	SPV.0060 Special 21. Replace Type II Sign Support Bracket With Aluminum I Beams	17.000 EACH	_____._____	_____._____

Section: 0001 Total: _____._____

Total Bid: _____._____