

HIGHWAY WORK PROPOSAL

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

Proposal Number: **006**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Dane	5992-10-31	WISC 2019771	City Of Madison, Gammon Road; West Towne Mall To Grand Canyon Dr	LOC STR
Dane	5992-10-32	WISC 2019772	City Of Madison, Gammon Road; Ush 12 To Mineral Point Road	LOC STR
Dane	5992-10-33	N/A	City Of Madison, Gammon Road; Ush 12 To Mineral Point Road	LOC STR

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: \$250,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: December 10, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time November 13, 2020	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 5%	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:	For Department Use Only
Excavation, Base, HMA Pavement, Asphaltic Surface, Curb and Gutter, Sidewalk, Pavement Marking, Box Culvert Construction, Retaining Wall Construction, Sign Bridge Construction, Street Lighting, Traffic Signals, Storm Sewer, Signs	
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 department's web site listed above or by picking up the addenda at the Bureau of Highway Construction, 4th floor, 4822 Madison Yards Way, Madison, WI, during regular business hours.

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

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 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

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

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

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

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 5992-10-31, City of Madison, Gammon Road, West Towne Mall to Grand Canyon Drive, Local Street; Project 5992-10-32, City of Madison, Gammon Road from USH 12 to Mineral Point Road, Local Street; and Project 5992-10-33, City of Madison, Gammon Road, USH 12 to Mineral Point Road, all projects located in Dane County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2020 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 (20190618)

2. Scope of Work.

The work under this contract shall consist of clearing and grubbing, earthwork, storm sewer, sanitary sewer, water main, base aggregate, concrete pavement, concrete driveway, concrete curb and gutter, concrete sidewalk, HMA pavement, asphaltic surface, MGS guardrail, Structure B-13-870, retaining walls, topsoil, seeding, sodding, erosion control, street lighting, traffic signals, cantilever overhead sign structures, pavement marking, signing, fencing, traffic control 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.

A General

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.

Provide the Erosion Control Implementation Plan (ECIP) 14 days prior to the Preconstruction Conference.

Prior to the preconstruction conference, submit to the engineer a satisfactory linear progress schedule that shows the proposed sequence of work and the plan for completing the various items of work according to these special provisions.

The contractor is advised that there will be multiple mobilizations for many contract items due to the staging. The department will make no additional payment for these multiple mobilizations.

For each traffic staging switch, adjust signs, pavement marking, and devices for traffic control completely before the end of operations on that day.

For vehicular traffic north of Station 210+00'NB' or Station 210+00'SB', the driving surface may be temporary ¼-inch minimum skid-resistant steel plates held in place by cold-patch asphalt for up to two calendar days (48 hours). Do not use steel plates in the vicinity of the WB USH 12/14 ramp terminal. Do not place asphalt cold patch in areas designated for use by pedestrians. Steel plates and asphalt cold-patch used for this purpose will not be measured and paid for separately but considered incidental to other items of work.

B Contractor Coordination and Advance Notification

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

Hold prosecution and progress meetings once a week. The contractor's superintendent or designated representative and subcontractor's representatives for ongoing subcontract work or subcontractor work to begin within the next two weeks are to attend and provide a written schedule of the next week(s) operations. Include begin and end dates of specific prime and subcontractor work operations. Agenda items to include review of contractor's schedule and subcontractor's schedule, evaluation of progress and pay items, and revisions if necessary. Plans and specifications for upcoming work will be reviewed to prevent potential problems of conflicts between contractors.

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

Maintain access for mail delivery and garbage/recycling pickup for all properties in the project area.

Notify Madison Metro transit system two weeks prior to construction. Notify one week prior to traffic switches and street closures. Contact Tim Sobota at (608) 261-4289.

Contact the City of Madison Refuse Supervisor at (608) 246-4532 to coordinate for refuse collection. Provide access for refuse collection.

Contact and coordinate with City of Madison for signal timing and phasing setup for temporary signals prior to the start of a traffic change or stage. City of Madison contact is Gretchen Aviles Pineiro at (608) 266-4899.

Prior to any traffic control being placed, provide the engineer, the Wisconsin State Patrol, the Dane County Sheriff's Department, and the City of Madison Police Department with the name and number of a local person responsible for the emergency maintenance of traffic control.

72 hours in advance of all switchovers of traffic lanes, full closures of roadways, closure of traffic lanes or turning movements, notify the Wisconsin State Patrol, the Dane County Sheriff's Department, the City of Madison Police Department, the City of Madison Engineering Division, the City of Madison Traffic Engineering Division, the City of Madison Fire Departments and Emergency Medical Services and the Dane County 911 Center. Notifications must be given by 4:00 PM on Thursday for any such work to be done the following Monday.

Notify business owners and residents at least two days prior to restricting access and three days prior to closing access to any driveway. Schedule sidewalk and driveway approach removal and replacement so that the time lapse between removal and replacement is minimal. See the Traffic article of these special provisions for information on residential and business property access.

C Staged Construction

Schedule of operations shall conform to the construction staging concept and schedule provided in the plan, unless the engineer approves modifications in writing. The substages listed below are shown in the plan. Major items of work associated with each stage are identified below.

Prior to water main relocation work and Stage 2 of the box culvert, install temporary shoring at Station 296+87 'BP'.

For Stage 3A, limit the closure of the NB Gammon Road left turn lane at Gammon Place intersection to one calendar week.

Stage 1: Reconstruct SB Gammon Road

Substage 1A:

- Remove existing median and construct temporary pavement. Remove curb and gutter, grade and construct temporary pavement in the southwest corner of Gammon Road/USH 12 westbound on-ramp intersection. Construct sidewalk connection to West Towne Mall from southbound Gammon Road sidewalk at ~Station 215+15 'SB', LT.

Substage 1B:

- Install temporary concrete barrier at Gammon Road/USH 12 westbound on-ramp intersection. Install shoring. Construct southbound lanes and begin work on western 1/3 of box culvert. Construct R-13-338, R-13-339, and R-13-343.

Substage 1C:

- Sub stage to construct West Towne entrance/exit at Gammon Road/Gammon Place intersection.

Substage 1D:

- Sub stage to construct West Towne entrance/exit at Gammon Road/Odana Road intersection.

Substage 1E:

- Sub stage to construct West Towne entrance/exit at Gammon Road/Odana Road intersection.

Substage 1F:

- Remove temporary pavement and construct southwest corner of Gammon Road/USH 12 westbound on-ramp intersection at beginning of stage. After construction of southwest corner of Gammon Road/USH 12 westbound on-ramp, open new shared-use path and sidewalk on southbound Gammon Road. Construct temporary pavement in median, remove curb and gutter and grade for temporary pavement construction in southeast and northeast corners of the Gammon Road/USH 12 westbound off-ramp intersection.

Stage 2: Reconstruct NB Gammon Road

Substage 2A:

- Shift traffic onto new southbound Gammon Road lanes and temporary pavement. Install temporary barrier at Gammon Road/USH 12 on/off ramp intersection. Install shoring for water main work (Station 208+00 – Station 208+80 'NB', 25' RT). Perform water main work prior to construction of the box culvert. Construct northbound Gammon Road lanes. Continue constructing middle 1/3 of the box culvert.

Substage 2B:

- Sub stage to construct east leg of Gammon Place at Gammon Road/Gammon Place intersection.

Substage 2C:

- Sub stage to construct east leg of Odana Road at Gammon Road/Odana Road intersection.

Substage 2D:

- Sub stage to construct east leg of Odana Road at Gammon Road/Odana Road intersection.

Stage 3: Reconstruct Median and WB Off-Ramp Terminal

Substage 3A:

- Shift traffic to the outside northbound and southbound Gammon Road lanes. Install temporary concrete barrier at the Gammon Road/USH 12 westbound off-ramp intersection. Install shoring. Finish construction of last 1/3 of the box culvert. Construct median.

Substage 3B:

- Construct Gammon Road at USH 12 westbound off-ramp.

Substage 3C:

- Remove temporary pavement and construct northeast corner of Gammon Road/USH 12 westbound off-ramp intersection. Construct R-13-340, R-13-341.

Substage 3D:

- Remove temporary pavement and construct median at Gammon Road/USH 12 westbound on/off ramp intersection.

Stage 4: Place HMA Upper Layer

- Place HMA upper layer, stripe entire project and finishing items.

D Northern Long-eared Bat (*Myotis septentrionalis*)

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

According to the final 4(d) rule issued for the NLEB, the department has determined that the proposed activity may affect, but will not result in prohibited take of the NLEB. The activity involves tree removal but will not occur within 0.25 miles of a known hibernacula, nor will the activity remove a known maternity roost tree or any other tree within 150 feet of a known maternity roost tree.

If additional trees need to be removed, no Clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat presence/absence survey. Notify the engineer if additional Clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

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

4. Traffic.

A General and Miscellaneous

Place roadway signing, temporary pavement marking, and devices for traffic control as detailed in the plan, according to standard spec 643, and conforming to the Wisconsin Manual on Uniform Traffic Control Devices (WMUTCD), latest edition.

For all public roadways, keep the existing number of lanes open to traffic at all times, except as provided below for full roadway closures, closure of individual traffic lanes, or for flagging.

Provide PCMS message boards as shown in the plan.

Keep travel lanes clean and free of debris throughout the duration of the contract.

Maintain emergency vehicle access to all properties at all times.

Provide flaggers at each end of a lane closure and at each intersection within a lane closure. Payment for flaggers, and for all needed appurtenances, including lighting, is incidental to the item of Traffic Control.

Do not park or store equipment or materials within 10-feet of a city street, or within 18-feet of the traveled way for a USH 12/14 ramp, unless approved by the engineer.

During various stages of construction, install underground items (storm sewer, water main, conduit, etc.) to the staging limits. Adequately extend the underground items to a location past the new pavement so they are accessible the following substage.

B Definitions

Weeknight Closure Allowance

- Applies from 12:00 AM Monday morning to 11:59 PM Friday evening.
- Closures allowed starting one hour after West Towne Mall closes to business in the evening and concluding 6:00 AM the following morning.

Weekend Closure Allowance

- Applies from 12:00 AM Saturday morning to 11:59 PM Sunday evening.
- Closures allowed starting one hour after West Towne Mall closes to business in the evening and concluding one hour before West Towne Mall opens for business the following morning.

C Gammon Road

For both directions of Gammon Road, keep two lanes open to through traffic at all times, except for Weeknight Closure Allowance, or for Weekend Closure Allowance.

For both directions of Gammon Road, the number of lanes open to through traffic may be reduced from two to one under Weeknight Closure Allowance, or under Weekend Closure Allowance.

For both directions of Gammon Road at the westbound ramp terminal and the intersections with Odana Road and Gammon Place, keep at least one protected left turn lane open to traffic at all times, except for Stage 3A northbound left turn lane at Gammon Place, the Weeknight Closure Allowance, and the Weekend Closure Allowance.

For both directions of Gammon Road at the westbound ramp terminal and the intersections with Odana Road and Gammon Place, left turn lanes may be closed under Weeknight Closure Allowance, or under Weekend Closure Allowance.

In Stage 1A, for northbound Gammon Road at Mineral Point Road intersection, shift through lanes and left turn lane to the outside as shown in the Plan during either the Weeknight Closure Allowance or the Weekend Closure Allowance. At all other times, operate northbound Gammon Road traffic at Mineral Point Road intersection on existing lanes.

D USH 12/14 Ramps

For all ramps at the USH 12/14 interchange with Gammon Road, keep all lanes open to through traffic at all times, except for Weeknight Closure Allowance, or for Weekend Closure Allowance.

For the westbound Off-Ramp, the number of lanes open to traffic for either the left turn movement to southbound Gammon Road or the right turn movement to northbound Gammon Road may be reduced from two to one, or the ramp may be closed entirely, under Weeknight Closure Allowance, or under Weekend Closure Allowance.

For the westbound Off-Ramp, under Substage 3C, use HES concrete pavement to expedite lengthening of the storage for the second right turn lane.

The westbound On-Ramp may be closed under Weeknight Closure Allowance, or under Weekend Closure Allowance.

For the eastbound Off-Ramp left turn movement to northbound Gammon Road, the number of lanes open to traffic may be reduced from two to one under Weeknight Closure Allowance, or under Weekend Closure Allowance.

E Odana Road

Keep Odana Road open to traffic in both directions at all times.

When replacing storm sewer trunk line across the Gammon Road intersection with Odana Road during Substage 1A, or for HMA paving later on, the median opening may be fully-closed, with east-west crossing and left turns prohibited, during hours when Metro Transit buses are not crossing Gammon Road, or making left turns at the intersection, for up to six nights, total. When the median opening is fully

closed at Odana Road, close one through lane in each direction for Gammon Road, close two of three intersection approach lanes for westbound Odana Road, close the access to West Towne Mall, but do not close the Gammon Road median opening at Gammon Place. Metro Transit buses do not make the east-west crossing or left turns at the intersection during the following hours: 12:00 AM to 5:00 AM weekday mornings; 10:30 PM to 7:00 AM Saturday and Sunday mornings. Permit right turns between Odana Road and NB Gammon Road at all times.

For stages other than 2C or 2D, maintain at least two traffic lanes in both directions at all times, having movement designations for westbound lanes as shown in the staging plan, except for Weeknight Closure Allowance, or for Weekend Closure Allowance.

For stages other than 2C or 2D, the number of through lanes open to traffic in each direction may be continuously reduced from two to one under Weeknight Closure Allowance, or under Weekend Closure Allowance.

During Substages 2C and 2D, the number of through lanes open to traffic in each direction may be continuously reduced from two to one.

F Mineral Point Road

Maintain all traffic lanes in both directions at all times.

G Gammon Place

During Substage 2B, maintain eastbound traffic entering from Gammon Road, but close off westbound from exiting to Gammon Road. Otherwise, maintain two-way traffic at all times.

H Grand Canyon Drive

Maintain two-way traffic.

I West Towne Mall Entrances

For each West Towne Mall entrance off Gammon Road, maintain traffic lanes in each direction at all times, having movement designations as shown in the staging plan, during West Towne Mall business hours, and whenever Metro Transit buses use the entrance, which extends beyond business hours in the morning and in the evening. Otherwise, an entrance may be fully closed, the hourly allowance for which is summarized below.

The West Towne Mall entrance across from Odana Road may be closed from 12:00 AM to 5:00 AM weekday mornings, and from 10:30 PM to 7:00 AM Saturday and Sunday mornings.

The West Towne Mall entrance across from Gammon Place may be closed under Weeknight Closure Allowance, or from 11:00 PM to 7:00 AM Saturday and Sunday mornings.

Do not concurrently close both West Towne Mall entrances.

J Bike Path at Underpass of USH 12/14

Per the Plan, maintain bike path access at all times from Grand Canyon Drive to the crossing under USH 12/14, and to the bike path extending east paralleling WB USH 12/14 to the north.

When constructing through an area where the bike path is being used, provide guide-persons to safely assist bicyclists or pedestrians through the work area. When an area under use is unpaved during non-construction hours, provide and maintain a surface of 6" base aggregate dense 1-1/4-inch, having a minimum clear width of 8', with traffic control cones spaced at 10'. Restrict the bike path having an unpaved (base aggregate) surface to two calendar weeks (14 days).

K Access for Buses, Bus Stops, Sidewalk, and Crosswalks

At all times, accommodate all scheduled movements for buses run by Metro Transit, City of Madison.

As shown in the plan, maintain the one southbound bus stop and the one northbound bus stop within the project limits at all times. Temporary bus stop signs and poles will be furnished and installed by Metro Transit, City of Madison. Notify Metro Transit at least one calendar week in advance of the start of construction, and in advance of each modification to a bus stop. Contact Tim Sobota of Metro Transit at (608) 261-4289, or tsobota@cityofmadison.com.

At all times, keep sidewalk open for use the entire length between Watts Road and Mineral Point Road along one side of Gammon Road, including marked crosswalks that run east-west at Watts Road and Mineral Point Road, and crosswalks along the same side of Gammon Road that run north-south at ramps and side roads, as shown in the plan.

As shown in the plan, maintain accessible marked crosswalks and their sidewalk approaches across the construction zone at the north and east legs of the Odana Road intersection, to provide continuous pedestrian access between West Towne Mall and the Metro Transit Route 73 bus stop along eastbound Odana Road.

As shown in the plan, maintain an accessible marked crosswalk and its sidewalk approaches across the construction zone at the north leg of the Gammon Place intersection, to provide continuous pedestrian access between West Towne Mall and destinations along the east side of Gammon Road.

L Pedestrian Access – General Requirements

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

As shown in the plan, maintain pedestrian movements crossing the construction zone at all intersections at all times, unless otherwise directed by the engineer. Pedestrian crossings of intersections shall meet requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and shall consist of temporary asphaltic surface, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable. Maintain ADA accessible pedestrian walkways that are free from mud, sand, and construction debris. The Temporary Crosswalk/Sidewalk bid item is payment for maintaining crosswalks through the construction zone where existing crosswalks exist. Any closures of sidewalk shall be approved by the engineer and shall conform to the traffic control plan. At locations where crosswalks crossing Gammon Road exist on both sides of the intersection, closure of one of the two crosswalks is permitted as long as all other crossings are completely open.

Maintain driveway access for special needs residents at all times. Provide temporary driveway access or provide a designated parking location adjacent to the property. Plating of concrete work as directed by the engineer to accommodate special needs residents is incidental to the item being plated.

M Special Notification for Impact to Access for Businesses

Notify West Towne Mall businesses at least three calendar days in advance of each staging switch affecting the traffic pattern, and of each overnight full closure of an entrance off Gammon Road. Contact Tammy Rozek at (608) 833-6330, Ext. 5298.

Notify Gammon Place business owners at least three calendar days in advance of restricting traffic at Gammon Place to one-way EB only during Substage 2B.

Unless agreed otherwise by the Radisson Hotel, provide continuous access to staff, service providers, and customers through the construction zone to the back lot, located along the south side of the building. At least three calendar days in advance of starting work within the limits of the hotel's existing parking lot, notify Hotel Manager Brad Groves at (608) 220-1383. The hotel address is 517 Grand Canyon Drive, Madison WI 53719.

Notify businesses at least three calendar days in advance of closing east-west sidewalk connecting their establishment to north-south sidewalk paralleling Gammon Road.

N Residential and Business Property Access

Maintain access to properties along Gammon Road for local residents and businesses. Maintain and keep open the access to all commercial driveways and parking lots where alternative access is not available at all times by closing one driveway at a time, building half of the driveway at a time and/or plating concrete work. A commercial driveway is any driveway that serves any business or provides access to four or more parking spaces. Plating of concrete work, as directed by the engineer, is incidental to the item that is being plated. Residential driveways may be closed for a maximum of 10 calendar days while the driveway is reconstructed.

Notify business owners and residents in writing at least 2 days (48 hours) prior to restricting access to any driveway. Notify residents in writing at least 3 days (72 hours) prior to closing any access to any driveway.

Provide emergency vehicles with adequate access to all properties along the project at all times.

Install temporary no parking signs to facilitate the traffic control plan and as necessary to complete the work within the contract. Contact John Villareal with the City of Madison Parking Utility at (608) 267-8756 to arrange for pickup of the temporary no parking signs, at least 3 working days prior to placing the signs. Post the signs according to the City of Madison Police Department Guidelines for temporary no parking restrictions for construction or special events. The guidelines can be found at the link listed below. Obtaining and installing temporary no parking signings is incidental to the traffic control lump sum bid item.

http://www.cityofmadison.com/business/pw/documents/guidelines_temporarynoparkingrestrictions.pdf

Contractor shall notify the City of Madison Police Department, Fire Department, Madison Metro, and Traffic Engineering 48 hours in advance of all switchovers of traffic lanes and closures of streets. Notifications must be given by 4:00 PM on Thursday for any such work to be done on the following Monday. Notify Madison Metro one week prior to traffic switches, street closures, and reopening the road to through traffic for bus routing. Madison Metro contact is Tim Sobota, (608) 261-4289.

O Minimum Clear Width

Whenever a single traffic lane is open in one direction along Gammon Road, the USH 12/14 ramps, Odana Road, or an entrance to West Towne Mall, maintain a minimum clear width of 16'.

When one-way EB traffic is run on Gammon Place during Substage 2B, maintain a minimum clear of 10' during construction operations, and 16' at all other times.

P Flagging

For both directions of Gammon Road Monday through Friday, and for side roads within 500 feet of the construction, flagging is permitted starting one hour after West Towne Mall closes to business in the evening and concluding 6:00 AM in the morning.

For both directions of Gammon Road Saturday and Sunday, and for side roads within 500 feet of the construction, flagging is permitted starting one hour after West Towne Mall closes to business in the evening and concluding one hour before West Towne Mall opens for business in the morning.

Flagging is permitted at all times along Grand Canyon Drive.

O Installation of Overhead Sign Structures

Where an overhead sign support cannot be installed during West Towne Mall business hours without live traffic in the lane below, and without live traffic in a lane adjoining the lane below, install the structure overnight under flagging or lane closure, the latter option limited to the same hour restrictions for flagging.

R Temporary Traffic Signals

During overnight hours when permitted overnight closures described above apply for all approaches to the intersection, the temporary traffic signal for the intersection may be run on flash or replaced with an all-way stop condition. If run on flash, use red for all directions for all intersections, except yellow may be used for both directions of Gammon Road at the at the WB ramp terminal, when the off-ramp is closed, or at the Gammon Place intersection. If an all-way stop condition is provided, deactivate or bag signal heads, and install the following signs for all approaches: R1-1 (36"X36"); R1-3P (24"X9"); WO3-1 (48"X48"). The temporary traffic signal shall remain in service whenever outside the time the overnight closure is permitted for one or more of the approaches.

As described in the article for Prosecution and Progress, coordinate with the City of Madison for signal timing and phasing setup prior to the start of a traffic switch or staging change.

S Traffic Staging

Substages for construction provided in the plan are listed below. Summarized for each stage is the general traffic pattern.

Stage 1: Reconstruct SB Gammon Road

Substage 1A:

- NB Gammon: outside right turn/through lane at USH 12 EB on-ramp becomes a right turn only for duration of the project; two through lanes shifted to the outside NB lanes; existing bus/bike/right turn lane becomes the outside through lane; single left turn lane at Odana Road intersection, single left turn lane at Gammon Place intersection; temporary lane shift at Mineral Point Road intersection
- SB Gammon: two through lanes shifted to outside SB lanes; single left turn lane at Gammon Place intersection; single left turn lane at Odana Road intersection;
- Odana/West Towne Mall intersection: operates as normal with Gammon Road lane shifts.
- Gammon Place/West Towne Mall intersection: operates as normal with Gammon Road lane shifts.
- USH 12 WB off-ramp: operates under existing condition. Weeknight/weekend ramp closure required to construct temporary pavement.
- Gammon Road sidewalk and shared use path: Maintain access to existing sidewalk along east (NB) side of Gammon Road throughout, including north-south marked crosswalks at ramps and side roads. Provide access to the SB Gammon Road bus stop from the Odana Road intersection along existing sidewalk. Otherwise, close SB sidewalk from just south of USH 12/14 to just south of Mineral Point Road. Maintain pedestrian access between West Towne Mall and the EB Odana Road bus stop by keeping open the north and east crosswalks at the Odana Road intersection. Maintain pedestrian access between West Towne Mall and destinations along the east side of Gammon Road by keeping open the north crosswalk at the Gammon Place intersection. Maintain access at all crosswalks at Watts Road and Mineral Point Road. Close east-west crosswalk at Gammon Place.
- Bike Path: Maintain access from Grand Canyon Drive to the bike path crossing under USH 12/14, and to the bike path extending east paralleling WB USH 12/14 to the north.

Substage 1B:

- NB Gammon: See Substage 1A.
- SB Gammon: two through lanes shifted east onto temporary pavement and opposing NB Gammon traffic; single left turn lane at Odana Road and Gammon Place intersections.

- Odana/West Towne Mall intersection: free-flow EB to SB movement closed; west leg EB lane configuration includes one left turn, one through and one right turn movement; one WB lane into West Towne Mall. East leg operates under existing condition.
- Gammon Place/West Towne Mall intersection: SB to WB right turn movement closed; west leg EB lane configuration includes one left turn, one shared through/right turn movement; one WB lane into West Towne Mall. East leg operates under existing condition.
- USH 12 WB off-ramp: operates under existing condition.
- USH 12 WB on-ramp: operates on new temporary pavement.
- Gammon Road sidewalk and shared use path: Provide access to the SB Gammon Road bus stop from the west via the newly-constructed 'BD'-Line connection to the West Towne mall parking lot, and close SB sidewalk throughout. Otherwise, same as Substage 1A.
- Bike Path: Same as Substage 1A.

Substage 1C:

- NB Gammon: See Substage 1B.
- SB Gammon: See Substage 1B.
- Odana/West Towne Mall intersection: See Substage 1B.
- Gammon Place/West Towne Mall intersection: SB to WB right turn movement closed; west leg EB lane configuration includes one shared left turn, through and right turn movement; one WB lane into West Towne Mall. East leg operates under existing condition.
- USH 12 WB off-ramp: See Substage 1B.
- USH 12 WB on-ramp: See Substage 1B.
- Gammon Road sidewalk and shared use path: Same as Substage 1B.
- Bike Path: Same as Substage 1A.

Substage 1D:

- NB Gammon: See Substage 1B.
- SB Gammon: See Substage 1B.
- Odana/West Towne Mall intersection: free-flow EB to SB movement closed; west leg EB lane configuration includes one left turn, one through and one right turn movement; one WB lane into West Towne Mall East leg operates under existing condition.
- Gammon Place/West Towne Mall intersection: west leg EB lane configuration includes one shared left turn, through and right turn movement; two WB lanes into West Towne Mall. East leg operates under existing condition.
- USH 12 WB off-ramp: See Substage 1B.
- USH 12 WB on-ramp: See Substage 1B.
- Gammon Road sidewalk and shared use path: Same as Substage 1B.
- Bike Path: Same as Substage 1A.

Substage 1E:

- NB Gammon: See Substage 1B.
- SB Gammon: See Substage 1B.

- Odana/West Towne Mall intersection: free-flow EB to SB movement closed; west leg EB lane configuration includes one shared left turn/through/ right turn movement; one WB lane into West Towne Mall. East leg operates under existing condition.
- Gammon Place/West Towne Mall intersection: See Substage 1D.
- USH 12 WB off-ramp: See Substage 1B.
- USH 12 WB on-ramp: See Substage 1B.
- Gammon Road sidewalk and shared use path: Same as Substage 1B.
- Bike Path: Same as Substage 1A.

Substage 1F:

- NB Gammon: See Substage 1A.
- SB Gammon: two through lanes shifted proposed SB lanes (outside lanes); at Gammon Place, two through lanes, one left turn lane and one right turn lane; at Odana Road, one left turn lane, one through lane and one shared through/right turn lane; at USH 12 WB on-ramp, two through lanes, one right turn lane to on-ramp.
- Odana/West Towne Mall intersection: west leg operates as proposed; east leg operates under existing condition.
- Gammon Place/West Towne Mall intersection: west leg operates as proposed; east leg operates under existing condition.
- USH 12 WB off-ramp: operates under existing condition. Weeknight/weekend ramp lane closures required to construct temporary pavement.
- USH 12 WB off-ramp: operates under proposed condition. Weeknight/weekend ramp closure required to remove temporary pavement and construct permanent condition in southeast corner of WB ramp terminal.
- Gammon Road sidewalk and shared use path: Same as substage 1A early, during construction at work at the WB on-ramp. Later in Substage 1F, after completion of work at the WB on-ramp, same as Substage 2A.
- Bike Path: Same as Substage 1A.

Stage 2: Reconstruct NB Gammon Road

Substage 2A:

- NB Gammon: two through lanes shifted east onto temporary pavement around construction area at Gammon Road/USH 12 WB ramp terminal; two through lanes shifted onto temporary pavement and proposed condition SB lanes opposing SB traffic from just south of Odana Road to Mineral Point Road. One left turn, one through and one shared through/right turn lane at Odana Road intersection. One left turn, one through and one shared through/right turn lane at Gammon Place intersection.
- SB Gammon: See Substage 1F.
- Odana/West Towne Mall intersection: west leg operates as proposed; east leg operates under existing condition.
- Gammon Place/West Towne Mall intersection: west leg operates as proposed; east leg operates under existing condition.
- USH 12 WB off-ramp: lane shifts required onto temporary pavement for box culvert work in the intersection. Weeknight/weekend ramp lane closures may be required to construct box culvert and perform water main adjustment.

- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Maintain access to the newly-constructed shared use path along west (SB) side of Gammon Road throughout, including north-south marked crosswalks at ramps and side roads. Close NB sidewalk from Seybold Road to just north of Odana Road, but keep NB sidewalk open at Odana Road, and north of Odana Road. Maintain pedestrian access between West Towne Mall and the EB Odana Road bus stop by keeping open the north and east crosswalks at the Odana Road intersection. Maintain pedestrian access between West Towne Mall and destinations along the east side of Gammon Road by keeping open the north crosswalk at the Gammon Place intersection. Maintain access at all crosswalks at Watts Road and Mineral Point Road. Close east-west crosswalk at Gammon Place.
- Bike Path: Maintain access from Grand Canyon Drive to the bike path crossing under USH 12/14, and to the bike path extending east paralleling WB USH 12/14 to the north.

Substage 2B:

- NB Gammon: See Substage 2A.
- SB Gammon: See Substage 2A.
- Odana/West Towne Mall intersection: See Substage 2A.
- Gammon Place/West Towne Mall intersection: west leg operates as proposed; east leg only allows one EB lane during construction. Construction to be staged to always allow one EB lane.
- USH 12 WB off-ramp: See Substage 2A.
- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: At Gammon Place, close NB sidewalk and north-south crosswalk to construct curb ramps. Otherwise, same as Substage 2A.
- Bike Path: Same as Substage 2A.

Substage 2C:

- NB Gammon: See Substage 2A.
- SB Gammon: See Substage 2A.
- Odana/West Towne Mall intersection: west leg operates with one left turn, one through and one right turn free-flow movement; east leg WB operates with one shared through/left/right turn lane and one EB through lane.
- Gammon Place/West Towne Mall intersection: east and west legs operate as proposed.
- USH 12 WB off-ramp: See Substage 2A.
- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Same as Substage 2A.
- Bike Path: Same as Substage 2A.

Substage 2D:

- NB Gammon: See Substage 2A.
- SB Gammon: See Substage 2A.
- Odana/West Towne Mall intersection: west leg operates with one left turn, one through and one right turn free-flow movement; east leg WB operates with one shared through/left/right turn lane and one EB through lane.
- Gammon Place/West Towne Mall intersection: east and west legs operate as proposed.

- USH 12 WB off-ramp: See Substage 2A.
- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Same as Substage 2A.
- Bike Path: Same as Substage 2A.

Stage 3: Reconstruct Median and WB Off-Ramp Terminal

Substage 3A:

- NB Gammon: two through lanes shifted east onto temporary pavement and proposed condition; one left turn, one through and one shared through/right turn lane at Odana Road intersection. One shared left turn/through lane, one through lane at Gammon Place intersection.
- SB Gammon: See Substage 2A.
- Odana/West Towne Mall intersection: east and west legs operate as proposed.
- Gammon Place/West Towne Mall intersection: east and west legs operate as proposed.
- USH 12 WB off-ramp: lane shifts required onto temporary pavement for box culvert work. Weeknight/weekend ramp lane closures may be required to construct box culvert.
- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Same as Substage 2A.
- Bike Path: Maintain access from Grand Canyon Drive to the bike path crossing under USH 12/14, and to the bike path extending east paralleling WB USH 12/14 to the north.

Substage 3B:

- NB Gammon: two through lanes shifted east onto temporary pavement at USH 12 WB terminal intersection; See Substage 3A for Odana Road and Gammon Place intersection configurations.
- SB Gammon: operating as proposed with the exception of inside lane closure at the USH 12 WB ramp terminal intersection.
- Odana/West Towne Mall intersection: See Substage 3A.
- Gammon Place/West Towne Mall intersection: See Substage 3A.
- USH 12 WB off-ramp: lane shifts required onto temporary pavement for intersection work.
- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Open all sidewalk and crosswalks to access, except continue to close NB sidewalk from Seybold Road to just north of Odana Road.
- Bike Path: Same as Substage 3A.

Substage 3C:

- NB Gammon: two through lanes shifted onto inside NB proposed condition lanes; See Substage 3A for Odana Road and Gammon Place intersection configurations.
- SB Gammon: See Substage 3B.
- Odana/West Towne Mall intersection: See Substage 3A.
- Gammon Place/West Towne Mall intersection: See Substage 3A.
- USH 12 WB off-ramp: lane shifts required onto temporary pavement for intersection work. Weeknight/weekend ramp lane closures may be required to construct box culvert.

- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Same as Substage 3B.
- Bike Path: Same as Substage 3A.

Substage 3D:

- NB Gammon: See Substage 3C.
- SB Gammon: See Substage 3B.
- Odana/West Towne Mall intersection: See Substage 3A.
- Gammon Place/West Towne Mall intersection: See Substage 3A.
- USH 12 WB off-ramp: operating as proposed condition with the exception of removing temporary pavement and constructing proposed condition in SE corner of Gammon Road/USH 12 WB ramp terminal intersection. Weeknight/weekend ramp lane closures may be required to construct box culvert.
- USH 12 WB off-ramp: operates under proposed condition.
- Gammon Road sidewalk and shared use path: Same as Substage 3B.
- Bike Path: Bring into service the entire bike path by opening access to the newly-constructed section of path between Grand Canyon Drive and Gammon Road.

Stage 4: Place HMA Upper Layer

- Weekend and weekday closure allowances apply for lane closures, ramp closures and/or restricted turning movements to place upper layer of HMA.
- Gammon Road sidewalk and shared use path: Briefly close each crosswalk to place the upper layer of HMA pavement, adhering to restrictions and access requirements identified in this article.
- Bike Path: Open for use.

T 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 less than 16 feet)	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction 16 feet or greater)	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.

5. Holiday Work Restrictions.

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

- From noon Friday, April 10, 2020 to 6:00 AM Tuesday, April 14, 2020 for Easter;
- From noon Friday, May 22, 2020 to 6:00 AM Tuesday, May 26, 2020 for Memorial Day;
- From noon Thursday, July 2, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day;
- From noon Friday, September 4, 2020 to 6:00 AM Tuesday, September 8, 2020 for Labor Day;
- From noon Wednesday, November 25, 2020 to 6:00 AM Monday, November 30, 2020 for Thanksgiving.

stp-107-005 (20181119)

6. Utilities.

This contract does not come under the provision of Administrative Rule Trans 220.

stp-107-066 (20080501)

The following provisions apply to the three project ID's 5992-10-31, 5992-10-32, and 5992-10-33. Coordination for Project ID 5992-10-33 was completed under project ID's 5992-10-31 and 5992-10-32.

There are underground and overhead utility facilities located within the project limits. There are known utility adjustments required for the construction project as noted below. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearance from overhead facilities at all times. Adjustments in the location of certain described items may be necessary, as directed by the engineer, when it becomes evident that a utility conflict could occur.

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

Prospective bidders are cautioned that the arrangements set forth in this Article represent the utility companies' best estimate of their plans to relocate and/or adjust conflicting facilities. Frequently, the utility companies encounter problems that prevent them from meeting their anticipated schedules.

ATC has a major underground 69 kV facility located north of USH 12 crossing Gammon Road approximately 125' north of the Gammon Road/USH 12 ramps intersection. The line continues east between USH 12 and Grand Canyon Drive.

No conflicts are anticipated; however, necessary precautions must be made for work near the following facility locations:

- UG ATC Paralleling retaining wall Station 298+25 - Station 301+25 LT 'BP' – ATC pipe is approximately 3.5'-4' deep along retaining wall. Proposed retaining wall (R-13-341) is approximately 10' from UG transmission center line. No conflict is anticipated, except at 301+35 20' LT where ATC is approximately 2.5' deep. Any excavation of this area must be reviewed by ATC after retaining wall is completed. Contact Ron Latus at (262) 364-9048. Any removal of thermal fill surrounding the ATC pipe must be replaced in kind. See Fluid Thermal Backfill article. If there is no excavation, no ATC contact is necessary. ULO recommended.
- Crossing under path Station 301+84, 20' LT 'BP' – ATC is approximately 6' deep exiting the manhole to the west. ATC will confirm manhole location and Station 40+20 'BF' slope. ATC to verify manhole cover is at appropriate elevation so water will not pool over it. Contact Ron Latus at (262) 364-9048. ULO recommended.

Other crossings have been identified and listed below. No conflicts are anticipated.

- Crossing Station 208+56 (BP) – ATC is approximately 16’ deep.
- Crossing Station 209+00 (NB) – ATC is approximately 25’ deep.
- Crossing Station 209+00 (SB) – ATC is approximately 34’ deep.
- Crossing Station 209+00 (BC) – ATC is approximately 14’ deep.
- Crossing under path Station 302+65 (BP) – ATC pipe is approximately 6’ deep.
- Crossing under path Station 305+92 (BP) - ATC pipe is approximately 6’ deep.
- Crossing under path Station 305+85 (BP) – ATC is 4’ deep. ULO recommended.
- Crossing under path Station 312+95 (BP) and 314+50 (BP) – ATC pipe is approximately 12’ deep.
- Storm crossing Station 195+90, 76’LT (WBF) (Inlet 146) – ATC pipe is approximately 14’-16’ deep.
- Storm crossing Station 313+77 (BP) (Inlet 300) – ATC pipe is approximately 10’ deep.

Additional guidelines when working near ATC underground transmission lines:

- Contact Ron Latus 5 working days prior to the start of the construction work (262) 364-9048. An ATC representative must be on site to supervise work around the ATC pipe.

Alliant Energy (Electric) has underground electric facilities located on the west side of Gammon Road between Gammon Place and Mineral Point Road.

No conflict anticipated.

AT&T Corporation (Communications) has no facilities in the project area.

No conflict anticipated.

AT&T Wisconsin (Communications) has underground communication facilities located on the west side of Gammon Road between Gammon Place and Mineral Point Road.

No conflict anticipated.

CenturyLink (Communications) has underground communication facilities located on the west side of Gammon Road between Odana Road and Mineral Point Road.

No conflict anticipated.

Charter Communications (Communications) has underground communication facilities located throughout the project limits. Charter plans to expose the existing conduit at Station 313+00 ‘BP’, RT, set a hand hole and pedestal over the conduit and directional bore a new 3” line to the north crossing Grand Canyon Drive to the existing hand hole on the north side. Pedestals and hand hole on south side of Grand Canyon Drive will be removed. Coax and conduit will be abandoned in place. Charter plans to relocate these facilities by Spring 2020.

The following handholes will be adjusted to match grade. All of these adjustments will take approximately one day to complete.

- Station 219+85 ‘SB’, LT
- Station 226+05 ‘SB’, LT
- Station 229+65 ‘SB’, LT

Charter has other facilities within the project limits, but no conflicts are anticipated.

City of Madison Engineering Division (Sanitary Sewer) has underground facilities located within the project limits.

No conflict anticipated.

City of Madison Traffic Engineering Division has underground and above ground traffic and overhead and underground lighting facilities located throughout the project limits.

The existing traffic facilities at the USH 12 WB on/off-ramp intersection, Odana Road and Gammon Place will be replaced within the project limits as part of the project. The existing lighting facilities along Gammon Road will be replaced with the project. New lighting will be included along the proposed West Towne Path and inside the proposed box culvert (B-13-870) and inside the existing Struck underpass.

City of Madison Water Utility has underground water facilities located throughout the project limits.

The existing 16" water main will be relocated between Station 208+00 'NB', RT and Station 208+80 'NB', RT. See General Provisions for City of Madison Water Main Construction article.

KLJ Engineering (MCI) (Communications) has no facilities in the project area.

No conflict anticipated.

Madison Gas & Electric Company (MG&E) (Electric) has overhead and underground electric facilities located throughout the project limits. Below is a list of potential conflicts.

- Station 294+75 'BP' – MGE has an existing below grade manhole. Adjustments will need to be made by MGE. Rebuilding the manhole is not anticipated, but if conflict is unavoidable, MGE needs 8 weeks to rebuild manhole.
- Station 212+30 'SB' – MGE has existing concrete encased duct package. ULO needed to determine if it conflicts with new storm sewer pipe between structure 130 and 140. MGE to adjust if needed. MGE needs to 1 week to adjust and 3 weeks notification to have a crew on site.
- Station 217+45 'NB' - MGE has existing concrete encased duct package. ULO needed to determine if it conflicts with new storm sewer pipe between structure 185 and 183. MGE to adjust if needed. MGE needs to 1 week to adjust and 3 weeks notification to have a crew on site.
- Station 300+50 'BP' to 301+00 'BP' - MGE has existing concrete encased duct package. ULO needed to determine if it conflicts with grade cut. MGE to adjust if needed. MGE needs to 1 week to adjust and 3 weeks notification to have a crew on site.
- Station 308+25 'BP' to 310+00 'BP' - MGE has existing concrete encased duct package. ULO needed to determine if it conflicts with grade cut. MGE to adjust if needed. MGE needs to 3 weeks to adjust and 3 weeks notification to have a crew on site.
- Station 312+25 'BP' to 312+75 'BP' - MGE has existing concrete encased duct package. ULO needed to determine if it conflicts with grade cut or where it crosses retaining wall. MGE to adjust if needed. MGE needs to 3 weeks to adjust and 3 weeks notification to have a crew on site.
- Station 314+00 'BP' – MGE has existing manhole and concrete encased duct package. ULO needed to determine if it conflicts with new storm sewer pipe that runs adjacent to manhole. MGE to adjust if needed and MGE needs to 8 weeks to adjust.

Coordination will need to occur with MGE Electric for installation of a new concrete encased duct package crossing Gammon Road north of the proposed pedestrian underpass.

Madison Gas & Electric Company (MG&E) (Gas) currently has gas facilities running along the east side of Gammon Road from the southern project limits to the northern project limits. MG&E will relocate the gas main between 207+50 - 209+50 'NB', around the proposed pedestrian underpass. The proposed gas will connect to existing at approximately 207+50 'NB', follow the WB USH 12 exit ramp to the east to approximately Station 200+00 'WBF', where it will cross the ramp, and then come back west towards

Gammon Road, following the right-of-way and existing utilities, connecting back into the existing gas main at 209+50 'NB'. The old gas main will be discontinued in place and purged of gas. Contact MGE Road King at (608) 235-0237 to verify if mains have been retired or for any other questions. All mains should be assumed to be live unless verified they are retired. Once verified, the contractor can remove as necessary.

MG&E gas will relocate the gas main in conflict with the proposed pedestrian underpass prior to construction in the spring of 2020 and is expected to last 20 working days. Given the complexity of the Gammon/Odana Rd. intersection, MG&E would need to adjust any gas facilities in conjunction with the project under the contractors traffic control.

ULO's are required at the following locations where gas lines cross proposed storm sewer. No conflicts are anticipated, however if conflicts are identified, provide 10 days notice to MG&E to schedule necessary adjustments. Any required adjustments are anticipated to take 1 to 2 days to complete.

- Station 210+33 'NB', RT
- Station 213+76 'NB', RT
- Station 217+32 'NB', RT
- Station 217+32 'SB', LT
- Station 217+57 'NB', RT

Madison Metropolitan Sewerage District (MMSD) has underground sewer facilities located throughout the project limits.

The following sanitary sewer manhole will be adjusted, and casting replaced during construction by the contractor. MMSD will provide castings and adjustment rings for impacted manhole. Provide 5 days' notice to Ray Schneider at (608) 347-3628, Rays@madsewer.org prior to needing manhole adjusted.

- Station 225+06 'NB', RT

TDS Metrocom and Telecom (Communications) has underground communication facilities located throughout the project limits.

The existing fiber and copper will be abandoned between the existing handhole located at 294+50'BP' to just east of the project limits east of Grand Canyon Dr. (approx. 315+50 'BP').

The existing handhole at 294+50 'BP' will be relocated south, out of slope intercept. From the new handhole, bore (2) 1.25" duct with fiber heading north to 211+00 'SB' LT. Then crossing to the fence line at 211+00 'NB' RT. Heading south to the existing handhole at 297+80 'BP' LT (existing handhole to remain).

Bore (2) 1.25" ducts with fiber heading east from the existing handhole at 297+80 'BP' to 300+00 'BP' LT then crossing Grand Canyon Dr. to the north to a new handhole. Continuing bore (2) 1.25" duct with fiber east to the existing handhole at 308+70 'BP' LT on the north side of Grand Canyon Drive. Replace this existing handhole then continue east with (2) 1.25" duct with fiber following the existing fiber to be abandoned to a new handhole at approximately 315+50 'BP' LT. Expose the existing fiber and tip up into the new handhole for splicing. New fiber to be placed at 6' depth from 312+00'BP' to 313+00'BP' and at 8' depth from 313+90'BP' to 314+50'BP'.

Windstream (Communications) has no facilities in the project area.

No conflict anticipated.

Wisconsin Independent Network (WIN) (Communications) has no facilities in the project area.

No conflict anticipated.

WisDOT (ITS) has underground electric facilities located in all four quadrants of the USH 12/Gammon Road WB on/off ramps, two loop detectors on the WB off-ramp beyond the reconstruction limits, and a camera mounted on a pole in the southwest quadrant of the USH 12/Gammon Road WB on/off ramps intersection. New handholes, conduit and wire will be installed by the contractor as part of this project, as shown in the Plans. Power will need to be maintained to these facilities during construction and may be fed overhead from the new meter location in the northeast corner of USH 12/Gammon Road WB on/off ramps intersection. The maximum allowable time to disconnect power service to existing cabinet is 24 hours. Coordinate this power outage with Dean Beekman, WisDOT, at (414) 750-1811. Coordinate the relocation of the ITS meter with Kyle Hemp, WisDOT, at (608) 246-5367.

WisDOT (Traffic Signals and Lighting) has underground and overhead facilities located at the USH 12 and Gammon Road WB on/off ramp intersection. The existing traffic signals (S13-0355) at this intersection are property of WisDOT with maintenance and operational responsibility by the City of Madison – Traffic. City of Madison - Traffic is designing and replacing the signals at this intersection. The existing lighting system (L13-04879) at the USH 12 and Gammon Road WB on/off ramp intersection are property of WisDOT. City of Madison – Traffic is designing and replacing lighting at this intersection within the project limits.

7. Other Contracts.

As shown in the plan, the City of Madison plans to replace the curb ramp in the northwest quadrant of the Gammon Road intersection with Mineral Point Road, and to install sidewalk along both sides of Grand Canyon Drive. The city expects Mineral Point Road curb ramp work to occur in late 2019, or in 2020. The city anticipates installing the sidewalk along Grand Canyon Drive in 2020. For city work concurrent with this project, coordinate traffic control with City of Madison Engineering.

8. Work by Others - Pavement Marking and Signing for New Crosswalk..

Where proposed BD-Line sidewalk matches existing curb and gutter in the West Towne Mall parking lot, others will provide signing and pavement marking for a new crosswalk along the circulatory roadway for the mall. The new sidewalk will open for use in Substage 1B to maintain pedestrian access to the SB bus stop. Two weeks prior to opening the new sidewalk for use, contact Todd Mosher of R A Smith, at (630) 405-5570 and/or Todd.Mosher@raSmith.com for the installation of pavement marking and signing for the crosswalk.

9. Work by Others - Median Surface for South West Towne Mall Entrance.

For the West Towne Mall entrance across from Odana Road, plantings and a special surface exist in the median. Others will replace the median surface. One week prior to installing the median curb and gutter, contact Tammy Rozek, at (608) 833-6330 Ext. 5298.

10. Hauling Restrictions.

At all times, conduct operations in a manner that will cause a minimum of inconvenience to the free flow of traffic on roadways carrying USH 12/14, S. Gammon Road, Odana Road, Gammon Place and Mineral Point Road traffic. Hauling vehicles shall only use engineer-approved ingress and egress locations.

Use only City of Madison designated truck routes for material haul roads as detailed in standard spec 618.

Equip all vehicles traveling on public roads that are hauling materials or removals and are subject to spillage, by either wind or vibration, with tailgates and adequate sideboards. Use canvas covers and any other protective devices to prevent spillage as determined necessary by the engineer. Comply with all local ordinances.

11. 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 Mark Westerveld at (608) 246-5355 Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

12. Coordination with Businesses and Residents.

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold a meeting one week prior to each traffic staging change. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least 2 weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

13. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

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

stp-107-001 (20060512)

14. Municipality Acceptance of Sanitary Sewer and Water Main Construction.

Both the department and City of Madison personnel will inspect construction of sanitary sewer and water main under this contract. However, testing, and acceptance of the sanitary sewer and water main construction will be by the City of Madison.

stp-105-001 (20140630)

15. Referenced Construction Specifications.

Construct the work enumerated below conforming to the City of Madison Standard Specification. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

Water main (all work required in Project 5992-10-33)

stp-105-002 (20130615)

16. General Provisions for Storm Sewer.

Construct all round and elliptical shape storm sewers according to the pertinent provisions of standard spec 608, and 611 as shown on the plans, and as follows.

Prior to ordering drainage pipes and structures, verify related drainage information in the plan with the engineer. This shall include all information obtained from the bid item "Utility Line Opening" (ULO).

Seal the joints for reinforced concrete pipe with either mastic or internal rubber gaskets as described in standard spec 608.3.4. The use of mortar as a pipe joint method is prohibited.

Lay all round and elliptical shape storm sewers on a 6-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.2.5.4. Bedding for round and elliptical pipe shall be incidental to the installation costs of the round or elliptical pipe.

Construct catch basins, manholes and inlets using only precast or cast in place concrete masonry options. All structures shall be reinforced concrete. Concrete brick and block options are prohibited.

Construct all structures (manholes and inlets) on a 12-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.2.5.4, and as shown on the plans. Bedding for structures shall be incidental to the installation costs of the structure.

Bid all structures (manholes and inlets) as field poured and construct all structures as field-poured unless the contractor receives approval of the City of Madison design engineer to precast the structures, Precast structures shall be allowed under the requirements of Section 507.3(b) of the City of Madison Standard Specifications for Public Works Construction, current edition. This approval will not be given until it can be confirmed that the proposed design will fit existing conditions including possible utility conflicts. No precast approval shall be authorized for any structure until such time as all ULO's that could affect the structure/structures in question have been completed and sufficient time is allowed for potential redesign of the system, if options to avoid utility conflicts are available.

Submit shop drawings for all precast structures to the City of Madison design engineer. Under no circumstance shall a precast structure be brought to or used on the construction site without a written approval of the shop drawing for that structure prior to its use on site.

Do not use station and offset for inlet structures, as given on the storm plans, for final layout of the structure. Determine the curb line in the area of the inlet prior to pouring the inlet structure to assure proper location of the inlet relative to the curb line.

The costs to connect storm sewer to existing structures or pipes and the costs to plug pipes for future use including tapping the hole, placing the pipe and sealing the joint, furnishing and installing a plugging device as specified above, will be incidental to the unit price bid for the pipe of the type, class and diameter used. The cost includes installing a concrete plug in the portion of the abandon pipe that remains in place after completion of storm sewer trench.

Carefully remove and stockpile all existing inlet, manhole, and catch basin covers that are not being adjusted and reused on the project at a location on the right-of-way outside the construction limits for pickup by City of Madison personnel. Contact Chris Scharf, City of Madison Department of Public Works at (608) 267-1973 or cscharf@cityofmadison.com to schedule pickup.

The contractor will be required to remove and dispose, to a location provided by the contractor, any unwanted castings, frames and grates that the city does not wish to salvage.

17. General Provisions for City of Madison Water Main Construction.

Contact Information:

Madison Water Utility
Adam Wiederhoeft, P.E.
Phone: (608) 266-9121
E-mail: awiederhoeft@madisonwater.org

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

Work Sequence:

Contact the identified person above 10 working days prior to starting water main work and provide a schedule of operations.

Construct water main according to the traffic control plans and in proper coordination with other construction activities. As construction and traffic control staging allow, begin installation of the new water main. The existing main can be isolated without putting any customers out of water. There is one isolation valve (16" V-7109) to the south located on Gammon Road approximately 100 feet north of Seybold Road. There are three isolation valves to the north:

- 12" valve V-16 in the southbound West Towne Mall exit ramp at approximately Station 216+45 LT 45' (SB).
- 12" valve V-6 on Odana Road at approximately Station 217+30 RT 40' (NB).
- 16" valve V-5 on Gammon Road at approximately Station 218+25 LT 1' (NB).

The following sequencing of water main installation is expected. Any alternate plans must be approved by the engineer.

- Isolate the existing main and install the 16" cut-in valve at the north end tie-in location.
- Install the water main offset ending just short of the south end tie-in location. Install a temporary reducer and flushing hydrant.
- Before backfilling the north end, install the north end thrust restraint per City of Madison Standard Detail 7.15.
- Fill, disinfect, flush and test the new main.
- After the water main has passed bacteriological and pressure testing, make the final connection to the existing water system on the south end.
- Before backfilling, install the south end thrust restraint per City of Madison Standard Detail 7.15.
- Do not pressurize the new main until the concrete thrust restraint is fully cured.

Madison Water Utility will flush and test the newly installed water main. Coordinate as necessary with Madison Water Utility for these operations. Remove and properly dispose of existing water main to be abandoned.

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

Location of Existing Water Facilities:

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

18. General Provisions for City Conduit Installation.

Supplement standard spec 652 as follows:

Use Schedule 80 conduit under all traffic areas.

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

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

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

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

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

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

19. General Provisions for City Traffic Signals.

Perform all work on the lighting and conduit/pull box system according to the Wisconsin Electrical Code, the applicable provisions of the standard specifications, and these special provisions and plans.

There is currently a several month backlog in the delivery of monotubes. Review the project schedule and order the required materials to allow for their delivery in a timely manner to prevent project delays.

Each pedestrian push button installation shall include "Push Button for Walk Signal" signs. Single direction arrow signing shall also be used with all buttons except two direction arrow signing is needed for single buttons on median poles.

Contact City of Madison, Mike Benzschawel at (608) 266-9031, to remove existing cameras at Odana Road and Westbound Beltline Ramp prior to removal of existing traffic signals. City of Madison Traffic Engineering will maintain the cameras during construction with contractor provided power and poles. Any equipment damaged during construction shall be replaced with equipment that is of greater or equal quality than the damaged piece. Once permanent traffic signal equipment is installed, contact Mike Benzschawel to remove cameras from temporary location to install in permanent location.

If existing conduits, handholes and bases designated to be maintained cannot be saved, contact Gretchen Aviles Pineiro at (608) 266-4899, for further direction.

All new electric services shall be metered power, 100 amperes, 120 volt, CG-3 rate.

A minimum of 6 feet separation shall be maintained between any adjacent loop detectors.

20. General Provisions for City Electric Systems.

A General Requirements

Perform this work according to the Wisconsin Electrical Code, National Electrical Contractor's Association (NECA) electrical construction practices, OSHA and the standard specifications.

Perform all work on the lighting and conduit/pull box system according to the Wisconsin Electrical Code, and applicable provisions of standard spec 659, and these special provisions and plans.

Carefully remove and salvage the steel frames and covers from all pull boxes and manholes to be removed or abandoned, and all street light poles, arms, transformer bases, fixtures, concrete handholes, and associated equipment. Material designated by the city to be saved shall be returned to City Traffic Engineering, 1120 Sayle St., Madison, WI.

Complete electrical work by a journey-worker electrician or be completed by an electrical apprentice under the supervision of a journey-worker electrician. Legal status or standing as a journey-worker and apprentice electricians shall be certified or otherwise documented to the engineer before beginning any electrical work. Electrical work is hereby defined as electrical and related construction required to be performed under the contract by the contractor, according to the standard specifications, contract provisions, standard detail drawings and plan details applicable to electrical construction. At the pre-construction conference, supply the engineer with a list of names and qualifications of journey-workers and/or electrical apprentices who will or may be working on this contract.

Proof of qualification to do electrical journey-worker level work shall be the "Completion of Apprenticeship" certification card issued by an approved state agency, or a resume showing sufficient electrical education and a minimum of 14,000 hours of varied electrical work experience. All apprentices shall be indentured by an approved state agency.

The contractor is hereby advised that electrical apprentices must work under the terms of their indentures, which require an apprentice be under the direct supervision of a journey-worker with the exception of an apprentice in the final year as an apprentice.

Any violation, or suspected violation, of these terms will be reported to the Bureau of Apprenticeship Standards.

On completion of the work, test the installation and ensure that it is entirely free of grounds and short circuits. This contract contemplates and intends a complete and operating installation of electrical work. Everything in the form of labor or material necessary for this result is in the intent of the contract.

It must be understood that electrical drawings and details are diagrammatic; they are not intended to be shop drawings. It is expected it may be necessary to move conduit, and/or equipment in some cases, to get a coordinated installation. Such changes are considered part of the contract obligation, without cost to the owner. Do not locate any equipment where its usefulness and/or operation may be affected by the work of other trades, door swing, counter, equipment, etc.

The contractor acknowledges his acquaintance with the plans and specifications and their respective requirements and shall guarantee the electrical system has been installed strictly according to the electrical plans and specifications, using only the best of materials available and installed in a substantial manner by experienced labor. The contractor agrees to replace and/or repair items failing from causes of faulty workmanship, material or design, without extra cost, at any time within one year from the date of final acceptance.

Furnish the City of Madison with service manuals for all items furnished under this contract. Service manuals shall be complete with drawings, diagrams, operation and installation instructions, and parts lists.

New streetlight wire in conduits shall consist of 3#6 and 1#8 green wire. The color coding for the #6 wire shall be one black, one red, and one white.

Ground wires shall have green insulation or be marked with green tape at all junction or pull boxes and at all terminations. Equipment and enclosures shall be grounded, ground connection surfaces shall be cleaned, and connections shall be made so it is impossible to move them.

All maintenance of existing street light facilities within the project limits shall be the contractor's responsibility. Maintain the new street lights until project work is accepted.

This work shall be considered incidental to installation of street light units, temporary lighting, structures and ducts, and no separate compensation will be paid.

Extend existing lighting circuits to feed the new and relocated lights as part of this project. Verify the existing loads of each lighting circuit before adding additional load to a lighting circuit. Loading on any circuit shall not exceed NEC requirements.

Submit one copy of as-built plans, including cable and conduit routing diagrams, wiring of fixtures and other pertinent details, to the engineer and the City of Madison.

Furnish equipment and appliances necessary to test the complete installation of electrical conductors. Test and demonstrate to the satisfaction of the engineer that the circuits are properly connected, continuous and free from short circuits and unspecified grounds, that the circuits are connected according to the manufacturer's wiring layout, and that each circuit is operational. The lighting system shall not be deemed complete until the electrical work has been completed and the electrical systems are found to be in proper working order, including operation for ten consecutive nights without failure.

B Materials

All materials furnished by the contractor for lighting installation under this contract are subject to approval by the engineer.

Manufacturers shall be responsible for providing materials listed by UL or other approved agencies and all governing codes and ordinances. Materials must bear a UL and/or other approved labels, where possible. Items specified by catalog number of brand name and shop drawing approval will not relieve the manufacturer of this responsibility.

All electrical material for which a standard has been established by the Underwriters

Laboratories, Inc. shall be furnished and installed under this contract. Material shall have the UL label firmly attached and be listed by UL Listing signifies that the material has passed the established standard testing. All electrical materials shall conform to the latest requirements of the Wisconsin Electrical Code.

All materials, not specified herein, used in the work shall conform to the requirements specified on the plan or the contract special provisions.

Furnish and install incidental items, such as wire nuts, grommets, tape, connectors, and electrical varnish that are obviously necessary to make the proposed system complete from the source of supply to the most remote unit.

Touch up marks and scratches on painted equipment with two coats of synthetic resin enamel or as directed by the engineer.

Furnish a complete list and cut sheets/shop drawings of materials to be furnished and used for lighting. Include the names and addresses of manufacturers, together with catalog numbers, certificates of compliance, specifications, and other product information requested by the engineer. Submit the list and cut sheets/shop drawings within 20 calendar days of the award of the contract. Do not incorporate any materials into the lighting system prior to obtaining the written approval of the engineer. Approval does not change the intent of the specifications. Do not substitute any materials. The contractor is allowed up to two submittals of material for approval. If more than two submittals are required, the contractor will be charged on a time-and-material basis for additional review time with payment made before submittals will be reviewed.

C Splices

Splices shall comply with standard spec 659.3.2. All splices within a junction box, handhole, etc. shall be of the same type. No splices are allowed in underground pull boxes, except for grounding conductors.

D Circuit Identification

Accomplish color coding by using cable jackets of the proper color. Code all tails of all splices. Color-code secondary distribution circuits as shown on the plans; the ground conductor shall be green. Each accessible location of underground cable in junction boxes, pull boxes and pole bases shall have a permanent white nylon tag with black lettering, attached in a "flag" manner using a nylon tie, identifying the cabinet and conductor circuit number.

E Branch Circuit Tagouts

The contractor may at his option work on live circuits or he may disconnect and tag out circuits. Any branch circuit not disconnected and tagged out shall be considered live; restrict work force to those qualified to work on live circuits. Disconnection may be made by disconnecting branches at the overcurrent device. Make tagouts with contractor furnished manufactured electrical warning tags and endorse with the name of the contractor, the date, and the project. Clear all tagouts by the end of the workday.

F Threaded Fasteners

Liberal coat all threaded fasteners, i.e., screws, and bolts with an approved anti-seize compound. Excepting fasteners inside control cabinets, fasteners up to 1/2-inch in diameter shall be stainless steel.

Provide rust, corrosion and anti-seize protection at threaded assemblies by coating the mating surfaces with Markal (Hightemp E-Z Break), Never-Seez (marine grade), LPS 100, Lubriplate or approved equal.

G Bonding Wire

Install bonding wire in conduits for equipment grounding. Ground all equipment as required.

H Initial Failures

The contractor and the engineer shall agree on a time for test burning of completed installations, which is generally toward the end of the contract period. Replace failed lamps, along with any other non-functioning component, for no additional compensation.

Only one test burn for the purpose of identifying initial failures will be required. Coordinate supply of replacement lamps with the city.

I Project Construction Staging

The construction of the new lighting system shall maintain the integrity of the existing lighting systems within and beyond the project limits at all times. Exceptions to this shall only be granted for just cause by the inspector.

J Items of the Same Classification

All items of the same classification shall be of the same manufacturer and series.

L Underground Installation

Ensure that the engineer has inspected all underground conduit and concrete base forms before backfilling any trench or pouring concrete. Any work completed without such inspection is subject to rejection as unacceptable work and shall be immediately removed and acceptably replaced or otherwise satisfactorily corrected by and at the expense of the contractor. It is the contractor's responsibility to arrange for inspections. There will not be any additional compensation to the contractor for delays and inconvenience associated with arranging and waiting for inspections.

21. Preservation of Existing Trees.

Tree preservation is of great importance on the project. Take precautions during construction so as not to disfigure, scar, or impair the health of any tree on public or private property that is not marked for removal. Do not place, park, or store on the surface of any unpaved areas within the drip lines of trees any equipment, vehicles, or materials. Do not deposit any chemicals, rinsates, or petroleum products within the drip lines of trees. The drip line is defined as the outermost extent of the tree canopy, extended vertically to the ground surface.

Preconstruction Pruning

Trees larger than 10 inches DBH will be pruned by City Forestry to an approximate height of 14 feet above the road wherever construction equipment is expected to invade the tree crown. Pruning will be done according to ANSI A300 tree pruning specifications. Protect all remaining limbs from damage by construction equipment.

Excavations

Do not rip or pull roots out towards the trunk of a tree while excavating. The use of an excavator, backhoe, or loader to cut roots is not acceptable. Immediately cut damaged roots over 1/2-inch in diameter in back of the damaged section. Make cuts with an ax, lopping shears, chainsaw, stump grinder, or other means that will produce a clean cut. Cover any exposed roots as soon as excavation and installation are complete. Root pruning will be paid under the item Root Pruning Existing Terrace Trees, Item SPV.0060.001.

Underground Utility Excavation and Installation

Do not grade, excavate, or disturb the area within 5 feet of any tree measured from the outside edge of the tree at DBH (Diameter Breast Height) along the length of the terrace, without permission from the City Forestry Representative.

The engineer and the City Forestry Representative will review laterals that are in close proximity to terrace trees on a case by case basis. The engineer may elect to terminate lateral or service installation prior to conflict with tree roots (i.e. at the curb line). For laterals that continue to the property line, use construction methods that minimize tree damage as directed by the engineer. The engineer may allow boring under or within the 5 feet protection zone.

Curb and Gutter Removal and Replacement

Provide extra care to root masses that grow very close to, up to or over the curb during excavation. The City Forestry marks "NRC" (No Root Cutting) next to trees with roots that could be damaged in curb removal.

Sidewalk Removal and Replacement

Provide extra care to root masses that grow very close to the sidewalk during excavation. The City Forestry marks "NRC" (No Root Cutting) next to trees with roots that could be damaged in sidewalk removal.

Terrace Restoration

Do not mechanically grade within 5 feet of any tree. If in the root protection zone, grade with hand implements in a manner that will minimize damage to the root system.

Damages

Failure to follow the proper safeguards of this specification, or the Root Pruning Existing Terrace Trees Bid Item will result in the following cost recovery charges and liquidated damages assessed against the contractor:

Where construction damage occurs causing or resulting in removal of the tree, the following damages will be assessed against the contractor:

- The costs associated with removing the tree including wood disposal.
- The costs associated with removing the stump to a depth of at least 24 inches below the ground.
- The costs associated with replanting a replacement tree that is balled and burlapped and a minimum caliper diameter of 3 inches. The species and replanting location will be determined by the City Forestry.
- The value of the existing tree which will equal \$125.00 per trunk diameter inch, measured at 4.5 feet above ground.

For bark scraping and broken branches the following damages will be assessed against the contractor:

- The costs associated with pruning broken branches, including wood disposal.
- Loss of limb or broken branch larger than 3 inches in diameter: \$150.00 for each occurrence. Breakage of limbs that are less than 14 feet above the roadway shall be reviewed on a case by case basis.
- Damage to trunk or bark larger than one square foot in area: \$400.00 each area.

For root cutting or excavation within the root protection zone the following damages will be assessed against the contractor:

- For mechanical excavation within 5 feet of a tree, along the length of the terrace or sidewalk of the tree, including ripping of roots back towards the trunk, without prior permission from City Forestry Representative: \$150.00 for each occurrence.
- For mechanical excavation beyond 6 inches or 1 foot of the proposed curb installation, as determined by the size of the existing tree and terrace width, including ripping of roots back towards the trunk: \$150.00 for each occurrence.

22. Temporary Shoring.

For Temporary Shoring – Stage 2, crossing at Station 296+87 'BP', as shown in the Structure Plans (B-13-870), add the following to standard spec 511.3:

Install shoring for water main relocation prior to construction of box culvert. Coordinate with City of Madison Water Utility.

23. Temporary Shoring Left In Place (R-13-341).

Add the following to standard spec 511.3:

Excavate to the level of ATC's 69KV utility line prior to installation of temporary shoring.

24. Storm Sewer.

Modify standard spec 611.3.6.1 as follows:

(3) Under the Manhole Covers Type J bid item, use covers stamped with the City of Madison logo as the plans show.

(4) Under the Inlet Covers Type H and Inlet Covers Type Z bid items, use covers stamped with the City of Madison logo as the plans show.

25. Nighttime Work Lighting-Stationary.

A Description

This special provision describes furnishing portable lighting as necessary to complete nighttime work. Nighttime operations consist of work specifically scheduled to occur after sunset and before sunrise.

B (Vacant)

C Construction

C.1 General

This provision shall apply when providing, maintaining, moving, and removing portable light towers and equipment-mounted lighting fixtures for nighttime stationary work operations, for the duration of nighttime work on the contract.

At least 14 days before the nighttime work, furnish a lighting plan to the engineer for review and acceptance. Address the following in the plan:

- Layout, including location of portable lighting – lateral placement, height, and spacing. Clearly show on the layout the location of all lights necessary for every aspect of work to be done at night.
- Specifications, brochures, and technical data of all lighting equipment to be used.
- The details on how the luminaires will be attached.
- Electrical power source information.
- Details on the louvers, shields, or methods to be employed to reduce glare.
- Lighting calculations. Provide illumination with average to minimum uniformity ratio of 5:1 or less throughout the work area.
- Detail information on any other auxiliary equipment.

C.2 Portable Lighting

Provide portable lighting that is sturdy and free standing and does not require any guy wires, braces, or any other attachments. Furnish portable lighting capable of being moved as necessary to keep up with the construction project. Position the portable lighting and trailers to minimize the risk of being impacted by traffic on the roadway or by construction traffic or equipment. Provide lightning protection for the portable lighting. Portable lighting shall withstand up to 60 mph wind velocity.

If portable generators are used as a power source, furnish adequate power to operate all required lighting equipment without any interruption during the nighttime work. Provide wiring that is weatherproof and installed according to local, state, federal (NECA and OSHA) requirements. Equip all power sources with a ground-fault circuit interrupter to prevent electrical shock.

C.3 Light Level and Uniformity

Position (spacing and mounting height) the luminaires to provide illumination with an average to minimum uniformity ratio of 5:1 or less throughout the work area.

Illuminate the area as necessary to incorporate construction vehicles, equipment, and personnel activities.

C.4 Glare Control

Design, install, and operate all lighting supplied under these specifications to minimize or avoid glare that interferes with all traffic on the roadway or that causes annoyance or discomfort for properties adjoining the roadway. Locate, aim, and adjust the luminaires to provide the adequate level of illumination and the specified uniformity in the work area without the creation of objectionable glare.

Provide louvers, shields, or visors, as needed, to reduce any objectionable levels of glare. As a minimum, ensure the following requirements are met to avoid objectionable glare on the roadways open to traffic in either direction or for adjoining properties:

- Aim tower-mounted luminaires, either parallel or perpendicular to the roadway, so as to minimize light aimed toward approaching traffic.
- Aim all luminaires such that the center of beam axis is no greater than 60 degrees above vertical (straight down).

If lighting does not meet above-mentioned criteria, adjust the lighting within 24 hours.

C.5 Continuous Operation

Provide and have available sufficient fuel, spare lamps, generators, and qualified personnel to ensure that the lights will operate continuously during nighttime operation. In the event of any failure of the lighting system, discontinue the operation until the adequate level of illumination is restored. Move and remove lighting as necessary.

D (Vacant)

E Payment

Costs for furnishing a lighting plan, and for providing, maintaining, moving, and removing portable lighting, tower mounted lighting, and equipment-mounted lighting required under this special provision are incidental to the contract.

stp-643-010 (20100709)

26. Destroying Geodetic Survey Control Station.

MIDDLETON GPS [station name] (DG4915) [Federal point identifier] is a geodetic survey control station incorporated in the Wisconsin Geodetic Survey Control Network with a data sheet published in the National Spatial Reference System (NSRS) database managed by NOAA's National Geodetic Survey (NGS).

MIDDLETON GPS is a 3.5-inch diameter bronze geodetic survey disk set in the top of a 16-inch diameter concrete base.

The approximate location of MIDDLETON GPS is Station 300+30, LT.

The disk shall be removed from the concrete base, salvaged and stored in the field office for WisDOT Central Office Geodetic Surveys Unit staff to collect and deliver to the NGS Regional Geodetic Advisor – Great Lakes Region (MI-IN-IL-WI).

Removal of the concrete base shall be paid under the appropriate contract item.

Notify Jacob Rockweiler, P.E., WisDOT Wisconsin Height Modernization Program Manager whose phone number is (608) 243-5992 and email is jacob.rockweiler@dot.wi.gov when the disk has been removed, salvaged and sent to the field office.

For additional information regarding geodetic survey control stations, please refer to Construction and Materials Manual (CMM) 7-85.2 at the following:

<https://roadwaystandards.dot.wi.gov/standards/cmm/cm-07-85.pdf>

27. Abandoning Sewer, Item 204.0291.S.

A Description

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

B Materials

Provide cellular concrete meeting the following specifications: 1 part cement, 1 part fly ash, 8 parts sand, or an approved equal, and water. Provide cement meeting the requirements of standard spec 501.2.1 for Type 1 Portland Cement. Provide sand meeting the requirements of standard spec 501.2.5.3 Provide water meeting the requirements of standard spec 501.2.4.

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

Payment is full compensation for furnishing all materials and excavating and backfilling where necessary.
stp-204-050 (20080902)

28. Reheating HMA Pavement Longitudinal Joints, Item 460.4110.S.

A Description

This special provision describes reheating the abutting edge of the previously compacted layer in the adjacent lane while paving mainline asphalt pavements.

B (Vacant)

C Construction

C.1 Equipment

Provide a self-contained heating unit that heats by convection only. Do not use forced air to enhance the flame. Provide a fireproof barrier between the flame and the heater's fuel source. The heater must produce a uniform distribution of heat within the heat box. Provide automatic controls to regulate the heater output and shutoff the heater when the paver stops or the heater control system loses power.

Mount the heater on the paver inside the paver's automatic leveling device.

C.2 Reheating Joints

Evenly reheat at least an 8 inch (200 mm) wide strip of the previously compacted layer in the adjacent lane as follows:

- Reheat the joint to within 60 degrees F (15 degrees C) of the mix temperature at the paver auger. Measure joint temperature immediately behind the heater.

The engineer may allow the required joint reheat temperatures to be cooler than specified to adjust for weather, wind, and other field conditions. Coordinate the heater output and paver speed to achieve the required joint reheat temperature without visible smoke emission.

D Measurement

The department will measure Reheating HMA Pavement Longitudinal Joints by the linear foot, acceptably completed, as measured along each joint for each layer of asphalt placed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF

Payment is full compensation for all the work required under this bid item.

stp-460-015 (20140630)

29. Concrete Staining Multi-Color B-13-870, Item 517.1015.S.01.

A Description

This special provision describes providing a multi-color concrete stain on the exposed concrete surfaces of the structure as the plan details show.

B Materials

B.1 Mortar

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

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

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

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

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces. Use the following products, or equal as approved by the department:

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

C Construction

C.1 General

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

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

C.2 Preparation of Concrete Surfaces

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

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete

surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

C.3 Staining Concrete Surfaces

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

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

The color of the staining shall produce a multi-color effect that consists of multiple colors replicating varying natural stone coloration. Stain the joints between stones produced by the form liner to create the appearance of grouted joints.

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

C.4 Test Areas

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

C.5 Surfaces to be Coated.

Apply concrete stain to the surfaces according to the plan.

D Measurement

The department will measure Concrete Staining Multi-Color (Structure) in area by the square foot of surface, acceptably prepared and stained.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1015.S.01	Concrete Staining Multi-Color B-13-870	SF

Payment is full compensation for furnishing and applying the coloring system; for preparing the concrete surface; and for constructing and staining the sample panels.

stp-517-115 (20140630)

30. Architectural Surface Treatment B-13-870, Item 517.1050.S.01.

A Description

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

B Materials

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

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

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

C Construction

C.1 Equipment

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

C.2 Form Liner Preparation

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

Apply form release per manufacturer's recommendations.

C.3 Form Liner Attachment

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

C.4 Surface Finishing

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

Grind or fill pouring blemishes.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment B-13-870	SF

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

stp-517-150 (20110615)

31. Cover Plates Temporary, Item 611.8120.S.

A Description

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

B Materials

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

C (Vacant)

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	EACH

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

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

stp-611-006 (20151210)

32. Pipe Grates STA 221+55 NB, Item 611.9800.S.01.

A Description

This special provision describes providing pipe grates on the ends of pipes.

B Materials

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

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

Repair pipes, rods, angles and brackets on which the galvanized coating has been damaged according to the requirements of AASHTO M36M.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9800.S.01	Pipe Grates	EACH

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

stp-611-010 (20030820)

33. Fence Safety, Item 616.0700.S.

A Description

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

B Materials

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

Furnish fence fabric meeting the following requirements.

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

C Construction

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

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

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

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

stp-616-030 (20160607)

34. Signs and Supports

Revise standard spec 638.1 as follows:

This section describes moving, removing, revising, or erecting state and City of Madison owned signs and supports.

35. Removal of Excess Amounts of Boulders for Water Main Installation, Item SPV.0035.450.

A Description

This special provision describes the removal of excess boulder required for the installation of water main. Boulders are considered to be naturally occurring rocks that have a dimension greater than 12- inches in one or more faces. Remove any and all boulders encountered regardless of number. Removal of boulders up to ½-cubic yard in volume is considered incidental regardless of the quantity encountered. When deemed by the engineer that the amount of boulders encountered on a project is excessive, additional payment will be covered under this item. This provision shall include the removal of any rubble that meets the one-half cubic yard volume description for boulders. The removal of any rubble that does not meet the volume description for boulders shall be incidental to water main installation.

B Materials

Refer to Article 702 of the City Standard Specifications

C Construction

Refer to Article 703 of the City Standard Specifications

D Measurement

Payment for this item must be authorized by the engineer. Boulders under 1-cubic yard in volume are to be measured by truck volume. Boulders over 1-cubic yard in volume are to be measured individually. Measure by taking the average dimensions in three directions.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.35	Removal of Excess Amounts of Boulders for Water Main Installation	CY

36. Temporary Crosswalk Access North & East Legs Odana Road, Item SPV.0045.001.

A Description

This special provision describes maintaining accessible marked crosswalks and their sidewalk approaches across the construction zone at the north and east legs of the Odana Road intersection, to provide continuous pedestrian access between West Towne Mall and the Metro Transit Route 73 bus stop along EB Odana Road.

B Materials

Furnish a hard temporary pedestrian surface of asphalt, plywood, or plate according to standard spec 644.2, and SDD 15D30. Gravel or base course material is not acceptable. Asphalt cold-patch to anchor plate may only be placed outside the area intended for use by pedestrians.

Furnish temporary pedestrian barricade according to standard spec 644.2, and SDD 15D30.

Furnish temporary curb ramps accommodating drainage, according to standard spec 644.2, and SDD 15D30. Instead of the metal fixture shown in detail b of SDD 15D30, curb ramps may be constructed with temporary pedestrian surface asphalt, accommodating drainage with 4-inch diameter polyvinyl chloride drainage pipe conforming to AASHTO M 278. If the asphalt abuts pavement or curb and gutter to remain after construction, furnish a protective layer to allow easy and thorough removal of the asphalt while avoiding damage to the permanent feature. Obtain approval from the engineer for the protective layer material.

Provide white 4-inch minimum width paint lines for crosswalk pavement marking according to standard spec 649.2.

C Construction

At a minimum, maintain pedestrian access at all times the West Towne Mall access across from Odana Road cannot be closed to traffic, as described in the article Traffic.

Maintain accessible hard temporary pedestrian surface on existing pavement or sidewalk, new pavement or sidewalk, or temporary surface material where shown on the plans or directed by the engineer.

For temporary surface, curb ramps, and crosswalks, meet the requirements of Americans with Disabilities Act Accessibility Guidelines (ADA).

Construct temporary pedestrian surface, barricade, and curb ramps accommodating drainage according to standard spec 644.3, and SDD 15D30. In areas not already paved, form the foundation by excavating at least 3 inches, and level and compact the foundation to ensure stability.

For each crosswalk, place two 4-inch minimum-width white pavement marking lines between 4-feet and 5-feet apart. Where the marking type transitions, closely match the existing or permanent pavement marking.

Remove temporary features once permanent curb ramps and crosswalks are in service and restore the site.

C.1 Temporary Crosswalks

Install, maintain, relocate (if necessary to accommodate work or operations), and remove hard temporary pedestrian surface material for crosswalks at the east and north legs of the Odana Road intersection.

The temporary crosswalk shall have a clear width between 4-feet and 5-feet, identified by pavement marking. Locate the crosswalk outside the immediate work area, as approved by the engineer.

Meet the requirements of ADA.

Where vehicular traffic does not cross, install temporary pedestrian barricade along both sides of the temporary crosswalk.

C.2 Temporary Curb Ramps

Install, maintain, and relocate (if necessary to accommodate work or operations) temporary pedestrian curb ramps for crosswalks at the east and north legs of the Odana Road intersection.

Meet the requirements of ADA.

If curb ramps are temporary pedestrian surface asphalt, place 4-inch PVC drainage pipe in the flow line of the curb and gutter to maintain storm water drainage. If the asphalt curb ramp abuts pavement or curb and gutter to remain after construction, place a protective layer between the two surfaces.

Maintain temporary curb ramps until permanent curb ramps and crosswalks are in place and open to pedestrian traffic as directed by the engineer.

C.3 Sidewalk Approaches to Temporary Curb Ramps and Crosswalks

Install, maintain, relocate (if necessary to accommodate work or operations), and remove hard temporary pedestrian surface material for sidewalk approaches to crosswalks to the east and north legs of the Odana Road intersection.

At a minimum, continually maintain access through the sidewalk and crosswalk approaches, as follows for each quadrant of the Odana Road intersection:

- NW Quadrant: West and east
- NE Quadrant: All directions
- SE Quadrant: South and east
- SW Quadrant: N/A

Level and compact the surface prior to placing hard temporary pedestrian surface material. The temporary surface shall have a clear width between 4-feet and 5-feet. Locate the temporary pedestrian surface outside the immediate work area, as approved by the engineer.

Meet the requirements of ADA.

Install temporary pedestrian barricade along both sides of the temporary pedestrian surface.

D Measurement

The department will measure Temporary Crosswalk Access North & East Legs Odana Road by the day in service, acceptably completed. The measured quantity will equal the number of calendar days the two crosswalks and their sidewalk approaches through the work area are open to pedestrian traffic. Each day any portion of crosswalk, or curb ramp, or section of sidewalk identified in this article is out of service more than one hour when the West Towne Mall access across from Odana Road cannot be closed to traffic will result in one day being deducted from the quantity measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.001	Temporary Crosswalk Access North & East Legs Odana Road	DAY

Payment for this item is full compensation for the following, located in the work zone, at crosswalks, at curb ramps and terraces, and along sidewalk approaches to curb ramps, up to 10' outside the limits of sidewalk replacement: maintaining temporary pedestrian access to the north and east leg crosswalks at Odana Road, including associated curb ramps and sidewalk approaches; for temporary pedestrian surface, temporary pedestrian barricade, temporary curb ramps accommodating drainage, including preparing the foundation, furnishing, loading, hauling, installing, maintaining, moving or relaying, and removing and disposing of the following; for temporary white crosswalk pavement marking lines through Substage 2D for the east leg at Odana Road, and through Substage 3A for the north leg at Odana Road.

The following are not included with this item but will instead be measured and paid for separately: temporary pedestrian barrier more than 10' outside the area of sidewalk replacement; temporary crosswalk pavement marking after completion of lower layer HMA pavement, curb ramps, and medians; temporary traffic signals; temporary traffic control devices or signs required to maintain vehicular traffic.

37. Temporary Crosswalk Access North Leg Gammon Place, Item SPV.0045.002.

A Description

This special provision describes maintaining accessible marked crosswalks and their sidewalk approaches across the construction zone at the north leg of the Gammon Place intersection, to provide continuous access between West Towne Mall and pedestrian destinations along the east side of Gammon Road.

B Materials

Furnish a hard temporary pedestrian surface of asphalt, plywood, or plate according to standard spec 644.2, and SDD 15D30. Gravel or base course material is not acceptable. Asphalt cold-patch to anchor plate may only be placed outside the area intended for use by pedestrians.

Furnish temporary pedestrian barricade according to standard spec 644.2, and SDD 15D30.

Furnish temporary curb ramps accommodating drainage, according to standard spec 644.2, and SDD 15D30. Instead of the metal fixture shown in detail b of SDD 15D30, curb ramps may be constructed with temporary pedestrian surface asphalt, accommodating drainage with 4-inch diameter polyvinyl chloride drainage pipe conforming to AASHTO M 278. If the asphalt abuts pavement or curb and gutter to remain after construction, furnish a protective layer to allow easy and thorough removal of the asphalt while avoiding damage to the permanent feature. Obtain approval from the engineer for the protective layer material.

Provide white 4-inch minimum width paint lines for crosswalk pavement marking according to standard spec 649.2.

C Construction

At a minimum, maintain pedestrian access at all times the West Towne Mall access across from Gammon Place cannot be closed to traffic, as described in the article Traffic.

Maintain accessible hard temporary pedestrian surface on existing pavement or sidewalk, new pavement or sidewalk, or temporary surface material where shown on the plans or directed by the engineer.

For temporary surface, curb ramps, and crosswalks, meet the requirements of Americans with Disabilities Act Accessibility Guidelines (ADA).

Construct temporary pedestrian surface, barricade, and curb ramps accommodating drainage according to standard spec 644.3, and SDD 15D30. In areas not already paved, form the foundation by excavating at least 3 inches, and level and compact the foundation to ensure stability.

For each crosswalk, place two 4-inch minimum-width white pavement marking lines between 4-feet and 5-feet apart. Where the marking type transitions, closely match the existing or permanent pavement marking.

Remove temporary features once permanent curb ramps and crosswalks are in service and restore the site.

C.1 Temporary Crosswalks

Install, maintain, relocate (if necessary to accommodate work or operations), and remove hard temporary pedestrian surface material for crosswalks at the east and north legs of the Odana Road intersection.

The temporary crosswalk shall have a clear width between 4-feet and 5-feet, identified by pavement marking. Locate the crosswalk outside the immediate work area, as approved by the engineer.

Meet the requirements of ADA.

Where vehicular traffic does not cross, install temporary pedestrian barricade along both sides of the temporary crosswalk.

C.2 Temporary Curb Ramps

Install, maintain, and relocate (if necessary to accommodate work or operations) temporary pedestrian curb ramps for crosswalks at the east and north legs of the Odana Road intersection.

Meet the requirements of ADA.

If curb ramps are temporary pedestrian surface asphalt, place 4-inch PVC drainage pipe in the flow line of the curb and gutter to maintain storm water drainage. If the asphalt curb ramp abuts pavement or curb and gutter to remain after construction, place a protective layer between the two surfaces.

Maintain temporary curb ramps until permanent curb ramps and crosswalks are in place and open to pedestrian traffic as directed by the engineer.

C.3 Sidewalk Approaches to Temporary Curb Ramps and Crosswalks

Install, maintain, relocate (if necessary to accommodate work or operations), and remove hard temporary pedestrian surface material for sidewalk approaches to the crosswalk at the north leg of the Gammon Place intersection.

At a minimum, continually maintain access through the sidewalk and crosswalk approaches, as follows for each quadrant of the Gammon Place intersection:

- NW Quadrant: West and east.
- NE Quadrant: West, north, and east.
- SE Quadrant: N/A.
- SW Quadrant: N/A

Level and compact the surface prior to placing hard temporary pedestrian surface material. The temporary surface shall have a clear width between 4-feet and 5-feet. Locate the temporary pedestrian surface outside the immediate work area, as approved by the engineer.

Meet the requirements of ADA.

Install temporary pedestrian barricade along both sides of the temporary pedestrian surface.

D Measurement

The department will measure Temporary Crosswalk Access North Leg Gammon Place, by the day in service, acceptably completed. The measured quantity will equal the number of calendar days the two crosswalks and their sidewalk approaches through the work area are open to pedestrian traffic. Each day any portion of crosswalk, or curb ramp, or section of sidewalk identified in this article is out of service more than one hour when the West Towne Mall access across from Gammon Place cannot be closed to traffic will result in one day being deducted from the quantity measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.002	Temporary Crosswalk Access North Leg Gammon Place	DAY

Payment for this item is full compensation for the following, located in the work zone, at crosswalks, at the existing turning island, at curb ramps and terraces, and along sidewalk approaches to curb ramps, up to 10' outside the limits of sidewalk replacement: maintaining temporary pedestrian access to the north leg crosswalk at Gammon Place, including associated curb ramps and sidewalk approaches; for temporary pedestrian surface, temporary pedestrian barricade, temporary curb ramps accommodating drainage, including preparing the foundation, furnishing, loading, hauling, installing, maintaining, moving or relaying, and removing and disposing of the following; for temporary white crosswalk pavement marking lines through Substage 3A.

The following are not included with this item but will instead be measured and paid for separately: temporary pedestrian barrier more than 10' outside the area of sidewalk replacement; temporary crosswalk pavement marking after completion of lower layer HMA pavement, curb ramps, and medians; temporary traffic signals; temporary traffic control devices or signs required to maintain vehicular traffic.

38. Root Pruning Existing Terrace Trees, Item SPV.0060.001.

A Description

This special provision describes pruning roots of existing terrace trees by hand or using a mechanical root cutting machine to allow for excavation; storm sewer, sanitary sewer or water main installation; and paving and curb and gutter operations.

B (Vacant)

C Construction

Preserve existing terrace trees not shown as being removed on the plans. Prune roots of existing terrace trees by hand or using a mechanical root cutting machine to allow for adjacent construction operations. Prune roots along the roadway side of the tree from drip edge to drip edge of the tree. Prune roots in the terrace from the back of curb and gutter to the face of sidewalk in areas of proposed sanitary and water utility lateral installations a minimum of 6 feet from the centerline the proposed utility trench. Roots shall not be pruned closer than 15 inches to any existing tree.

Cleanly cut roots by hand or by using a sharp clean carbide tipped rotary saw blade. If using a saw, disinfect the blade between cuts to avoid spreading disease. All root cuts shall be made smooth and clean to facilitate root regeneration. Tearing or ripping of roots is not acceptable. Removal of roots using a backhoe or endloader without proper root pruning is not acceptable.

Cover exposed tree roots with mulch and keep moist until backfilling is completed.

Backfilling of the area after removal of the roots shall be performed by the contractor as part of this item according to the pertinent provisions of standard spec 207. Backfilling shall be done by use of hand implements within the dripline of terrace trees.

Dispose of tree roots according to standard spec 201. Burning or burying of roots will not be permitted.

Do not conduct root pruning during bud break, shoot growth, or environmentally stressful times such as extreme drought or heat conditions.

D Measurement

Root Pruning Existing Terrace Trees will be measured as each individual tree, acceptably root pruned according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.001	Root Pruning Existing Terrace Trees	EACH

Payment is full compensation for all pruning, cutting, covering exposed roots with mulch, and backfilling.

39. Precast Sign Post Base, Item SPV.0060.002.

A Description

This special provision describes constructing and installing precast sign post bases at locations shown on the plans and as hereinafter provided.

B Materials

All materials furnished for the work shall meet the requirements for the class of materials named.

Specific reference is made to the following sections of the standard specifications:

Concrete Masonry standard spec 501

Steel Reinforcement standard spec 505

Concrete Masonry shall be of a 3,200-psi minimum strength in 28 days. The 2-inch x 24-inch +1/3-inch insert shall be an ASTM Designation 120 A53 Fed Spec P404, Schedule 40 untreated black pipe 2-inch diameter, with a galvanized rigid conduit coupling installed.

C Construction

Form the 24-inch x 11-inch precast base according to the details in the plan. Weld the coupling and pipe over 50 percent of the circumference. Center the insert in the base and plumb with the vertical axis of the base, and place so that the coupling is flush 1/8 inch with the top of the troweled surface of the base. The bottom of the insert extends a minimum of 1/8-inch below the base and shall remain open to permit drainage. Weld 3/8-inch by 8-inch reinforcing bar to the insert 8 inches from the top of the base and 8 inches from the bottom of the base to prevent the insert from rotating within the concrete base.

Set the signpost bases at the locations shown on the plans. The center of the finished installation shall be 2'6" + inches from the face of the adjacent curb.

Upon request and reasonable notice from the contractor, the engineer will establish and stake the location for the sign post bases. The City of Madison Traffic Engineering Division Staff will verify all signpost base locations.

Coat the threads of the pipe and coupling in the base with graphite grease prior to assembly.

Install the base and pipe as a unit, level with the finished grade of the surrounding surface with the pipe plumb. Tamp the material used for backfilling around the base in 6-inch layers to ensure the installation will remain plumb. Provide a one-year warranty that the signpost base installation shall remain plumb.

Remove and dispose of all excess excavation, surplus material and debris resulting from operations and satisfactorily repair and restore other work damaged by operations.

D Measurement

The department will measure Precast Sign Post Base as each individual unit, installed and accepted in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.002	Precast Sign Post Base	EACH

Payment is full compensation for furnishing all materials; for the manufacture of the sign post base; for hauling, handling and installing the sign post base, including backfill.

40. Temporary Drainage Cover for Existing Inlet or Manhole, Item SPV.0060.100.

A Description

This special provision describes providing temporary covers for existing inlets or manholes located in temporary pavement to allow them to continue receiving drainage during staged construction.

B Materials

Furnish materials adequate to maintain the drainage, and withstand expected structural loading.

Provide covers with openings to drain below into the existing structure. Allowable patterns for cover opening are provided in the department's standard detail drawings for inlet and manhole covers.

C Construction

For existing inlets and manholes identified in the plan, evaluate and take measurements to determine size and dimensions for temporary covers. Temporarily adjust the elevation of the top of structure, if necessary. Replace the existing cover with a temporary cover having openings to drain down into the existing structure.

Attach the cover to the existing structure to withstand traffic loading, using bolts or other means.

After its service is complete, remove and dispose of the cover. If an inlet is to remain after construction, adjust the elevation of the top of the structure in preparation for the salvaged cover, if necessary.

D Measurement

The department will measure Temporary Drainage Cover for Existing Inlet or Manhole as individual units, 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.0060.100	Temporary Drainage Cover for Existing Inlet or Manhole	EACH

Payment is full compensation for evaluation and taking measurements to determine size and dimensions for temporary covers; for adjusting the elevation of the top of the existing structure for the temporary cover, if necessary, and for the salvaged cover, if necessary; for furnishing, installing, maintaining, removing, and disposing of temporary covers; for affixing covers to existing structures to withstand traffic loading.

Removing existing inlets or manholes, or salvaging existing inlet covers, are not included in this item, but will be measured and paid for separately.

41. Temporary Drainage Cover for Proposed Inlet or Manhole, Item SPV.0060.101.

A Description

This special provision describes providing temporary covers for proposed inlets or manholes located in temporary pavement to allow them to receive drainage during staged construction.

B Materials

Furnish materials adequate to maintain the drainage, and withstand expected structural loading.

Provide covers with openings to drain below into the proposed structure. Allowable patterns for cover opening are provided in the department's standard detail drawings for inlet and manhole covers.

C Construction

For proposed inlets and manholes identified in the plan, evaluate to determine size and dimensions for temporary covers. Temporarily adjust the elevation of the top of structure, if necessary. Install a temporary cover having openings to drain down into the proposed structure.

Attach the cover to the proposed structure to withstand traffic loading, using bolts or other means.

After its service is complete, remove and dispose of the cover. Adjust the elevation of the top of the structure in preparation for the salvaged cover, if necessary.

D Measurement

The department will measure Temporary Drainage Cover for Proposed Inlet or Manhole as individual units, 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.0060.101	Temporary Drainage Cover for Proposed Inlet or Manhole	EACH

Payment is full compensation for evaluation to determine size and dimensions for temporary covers; for adjusting the elevation of the top of the proposed structure for the temporary cover, if necessary, and for the permanent cover, if necessary; for furnishing, installing, maintaining, removing, and disposing of temporary covers; for affixing covers to proposed structures to withstand traffic loading.

Construction staking storm sewer, or features of the permanent inlet or manhole, are not included in this item, but will be measured and paid for separately.

42. Temporarily Drain Between Existing Storm Sewer Pipe and Proposed Storm Sewer Pipe, Item SPV.0060.102.

A Description

This special provision describes providing temporary lateral drainage to proposed storm sewer trunk line during staged construction through connections temporarily linking existing lateral storm sewer pipe to proposed lateral storm sewer pipe in close proximity.

B Materials

Furnish materials adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

C Construction

At locations identified in the plan, evaluate and take measurements to determine size and dimensions for temporary connections. Install connections to drain between existing and proposed storm sewer pipe.

D Measurement

The department will measure Temporarily Drain Between Existing Storm Sewer Pipe and Proposed Storm Sewer Pipe as individual units, 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.0060.102	Temporarily Drain Between Existing Storm Sewer Pipe and Proposed Storm Sewer Pipe	EACH

Payment is full compensation for evaluation and taking measurements to determine the size and dimensions of temporary connections between existing and proposed storm sewer pipe; for furnishing, installing, maintaining, removing, and disposing of connections.

Construction staking storm sewer, or removing existing storm sewer pipe, or permanent storm sewer pipe, are not included in this item, but will be measured and paid for separately.

43. Temporarily Drain Between Existing Storm Sewer Pipe and Proposed Storm Sewer Structure, Item SPV.0060.103.

A Description

This special provision describes providing temporary drainage between existing storm sewer pipe and proposed storm sewer structures during staged construction by temporarily connecting pipes to structures.

B Materials

Furnish materials adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

C Construction

For locations identified in the plan, prepare the proposed storm sewer structure for the temporary connection, and install the temporary connection between existing storm sewer pipe and the structure.

D Measurement

The department will measure Temporarily Drain Between Existing Storm Sewer Pipe and Proposed Storm Sewer Structure as individual units, 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.0060.103	Temporarily Drain Between Existing Storm Sewer Pipe and Proposed Storm Sewer Structure	EACH

Payment is full compensation for evaluation and taking measurements for the temporary connection; for preparing the structure for the connection; for furnishing, installing, maintaining, removing, and disposing of connections.

Construction staking storm sewer, or storm sewer structures, or inlet covers, or reconstructing inlets or manholes, or abandoning or removing existing storm sewer pipe, are not included in this item, but will be measured and paid for separately.

44. Temporary Inlet Connection to Existing Storm Sewer Pipe, Item SPV.0060.104.

A Description

This special provision describes providing temporary inlets located in temporary pavement during staged construction directing drainage into existing storm sewer pipe below.

B Materials

Furnish materials adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

Provide covers with openings to drain below into the existing storm sewer pipe. Allowable patterns for cover opening are provided in the department's standard detail drawings for inlet and manhole covers.

C Construction

For existing storm sewer pipes identified in the plan, evaluate and take measurements to determine size and dimensions for the temporary inlet connection. Install the temporary inlet connection.

Provide a temporary inlet and cover to withstand traffic loading.

D Measurement

The department will measure Temporary Inlet Connection to Existing Storm Sewer Pipe as individual units, 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.0060.104	Temporary Inlet Connection to Existing Storm Sewer Pipe	EACH

Payment is full compensation for evaluation and taking measurements to determine size and dimensions for temporary inlet connections; for furnishing, installing, maintaining, removing, and disposing of connections; for installing the inlet and cover to withstand traffic loading.

Construction staking storm sewer, or removing existing storm sewer pipe, or permanent storm sewer pipe, or concrete collars for permanent storm sewer pipe, are not included in this item, but will be measured and paid for separately.

45. Inlets 5-FT Diameter, Item SPV 0060.105.

A Description

This special provision describes furnishing and installing Inlets 5-FT Diameter as shown on the plans, and according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials that conform to the requirements of the standard spec 611.2 and the following requirements:

- Inlet construction shall conform to requirements of Standard Detail Drawing 8C6.
- Inlet diameter shall be 5 feet.
- Minimum wall thickness shall be 6 inches for precast inlets.
- Precast flat slab tops and bases shall have a minimum thickness of 8 inches.
- Inlet cover opening shall be 2-feet x 3-feet.

C Construction

Construct the inlet according to standard spec 611.3.

D Measurement

The department will measure Inlets 5-FT Diameter by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.105	Inlets 5-FT Diameter	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

46. Inlets 6x6-FT, Item SPV 0060.106.

A Description

This special provision describes furnishing and installing Inlets 6x6-FT as shown on the plans, and according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials that conform to the requirements of the standard spec 611.2 and the following requirements.

- Inlet construction shall conform to requirements of Standard Detail Drawing 8B 10-2 for Manholes.
- Inlet size shall be 6 feet x 6 feet.
- Minimum wall thickness shall be 6 inches for precast inlets.
- Precast flat slab tops and bases shall have a minimum thickness of 8 inches.
- Inlet cover opening shall be 2-feet x 3-feet.

C Construction

Construct the inlet according to standard spec 611.3.

D Measurement

The department will measure Inlets 6x6-FT by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.106	Inlets 6x6-FT	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

47. Private Storm Sewer Reconnect, Item SPV.0060.107.

A Description

This special provision describes reconnecting an existing private storm sewer to a new storm sewer structure as shown in the plans, including all pipe realignments, extensions, and pipe, and couplings as necessary to complete the reconnection, and as hereinafter provided.

B Materials

Refer to Article 507 of the City Standard Specifications.

C Construction

Refer to Article 507 of the City Standard Specifications.

D Measurement

Payment for this item must be authorized by the engineer. The department will measure Private Storm Sewer Reconnect by each connection, 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.0060.107	Private Storm Sewer Reconnect	EACH

Payment is full compensation for reconnecting private storm sewer to new storm sewer structure including pipe, couplings, seals, and other materials required and for excavating, backfilling, and disposal of surplus materials.

48. Manhole Cover Type J Special, Item SPV.0060.108.

A Description

Furnish and install metal frames, grates and lids according to standard spec 611, as shown in the plan, and as hereinafter provided.

B Materials

Furnish castings according to standard spec 611, and Article 507 of the City of Madison Standard Specifications for Public Works Construction-Latest Edition, and the details shown on the plans. Furnish lids with the logo per City of Madison Standard Specifications for Public Works Construction-Latest Edition Standard Detail Drawing 5.7.16.

C Construction

Install castings according to standard spec 611.

D Measurement

The department will measure Manhole Covers Type J Special as each manhole 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.0060.108	Manhole Covers Type J Special	EACH

Payment is full compensation for providing new covers, including frames, lids, and all other required materials, and for installing and adjusting each cover.

49. Inlet Covers Type H Special, Item SPV.0060.109.

A Description

Furnish and install metal frames, grates, and lids according to standard spec 611, as shown in the plan, and as hereinafter provided.

B Materials

Furnish castings according to standard spec 611, and Article 507 of the City of Madison Standard Specifications for Public Works Construction-Latest Edition, and the details shown in the plan. Furnish lids with the logo per City of Madison Standard Specifications for Public Works Construction-Latest Edition Standard Detail Drawing 5.7.22.

C Construction

Install castings according to standard spec 611.

D Measurement

The department will measure Inlet Covers Type H Special as each inlet cover, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.109	Inlet Covers Type H Special	EACH

Payment is full compensation for providing new covers, including frames, lids, and all other required materials, and for installing and adjusting each cover.

50. Install City Provided Sign, Item SPV.0060.250.

A Description

Perform the work according to the applicable provisions of standard spec 637 and 638.

B Materials

Contact the City of Madison, Chad Veinot at (608) 266-4767, to provide the sign plates required for installation under this item.

C (Vacant)

D Measurement

The department will measure Install City Provided Sign as each individual unit, installed and accepted in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.250	Install City Provided Sign	EACH

Payment for Install City Provided Sign is full compensation for installing sign plates provided by the City of Madison at the locations and supports as specified in the plans and all other incidentals required to perform the work.

51. Sign Post Base for Concrete Installation, Item SPV.0060.251.

A Description

This special provision describes constructing and installing the sign post bases in concrete sidewalk or pavement at locations shown on the plans and as hereinafter provided.

B Materials

The 2-inch x 16-inch sign post base shall be an ASTM Designation 120 A53 Fed Spec P404, Schedule 40 untreated black pipe 2-inch diameter, with a galvanized rigid conduit coupling installed.

Waterproof anchoring cement for concrete shall be Unitex, Thorogrip 29/64 or equivalent.

C Construction

The sign post base shall consist of a 2-inch x 16-inch schedule 40 pipe with attached 2" rigid conduit galvanized coupling according to the details in the plan. Weld the coupling and pipe over 100 percent of the circumference.

Set the signpost bases at the locations shown on the plans. The center of the finished installation shall be 5'0" (2'6" for Advanced Street Name Sign Special installations) from the face of the adjacent curb or from the edge of paved shoulder. Upon request and reasonable notice from the contractor, the engineer will establish and stake the location for the sign post bases. The City of Madison Traffic Engineering Division Staff will verify all signpost base locations.

Box out all installations in hard surfaced areas (concrete) with a round PVC pipe with a minimum diameter of 3-inches or installed by drilling or core drilling a 3-inch hole all the way through the concrete to the base material. If drilling in architectural concrete pavement, cover the surface prior to drilling to protect the surface from drilling slurry. Coordinate all box out locations. With a temporary pipe 4 to 5 feet long, hand-tighten it into the insert. Drive the insert into the base material at a level/plumb position until the insert is flush with the top of the concrete. Shim insert to a level/plumb position with lag bolts or p.k. nails. All shims must be set below the concrete/insert. Remove temporary pipe, replace with permanent pipe, and tighten into insert with large pipe wrench until insert turns. Reset shims or add shims until pipe no longer turns. Retighten pipe and recheck level/plumb/top of concrete with insert. Patch concrete with a waterproof anchoring cement for concrete. Mix patch to a liquid consistency, not a paste. Pour patch until it is flush with the top of the insert. Recheck level/plumb/top of concrete with insert immediately due to fast setting time of cement. Additional cement may be required as it settles. Completed installation shall be level/plumb, solid, and able to support required sign post and signs. Patch shall be flush with adjacent concrete without exposed shims.

Coat the threads of the pipe and coupling in the base with graphite grease prior to assembly. Install the base such that the installed sign post will be plumb. Provide a one- year warranty that the signpost base installation shall remain plumb.

Remove and dispose of all excess excavation, surplus material and debris resulting from operations and satisfactorily repair and restore other work damaged by operations.

D Measurement

The department will measure Sign Post Base for Concrete Installation 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.0060.251	Sign Post Base for Concrete Installation	EACH

Payment is full compensation for furnishing all materials; for the manufacture of the sign post base; for hauling, handling and installing the sign post base, including drilling holes in concrete; and anchoring cement.

**52. Special Marking Arrow Epoxy, Item SPV.0060.300;
Special Marking Word Epoxy, Item SPV.0060.301.**

A Description

This special provision describes providing special pavement marking arrows and words.

B Materials

Conform to standard spec 646.2.

C Construction

Conform to standard spec 646.3.

D Measurement

The department will measure Special Marking Arrow Epoxy and Special Marking Word Epoxy 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.0060.300	Special Marking Arrow Epoxy	EACH
SPV.0060.301	Special Marking Word Epoxy	EACH

Payment for the special marking arrow and word bid items under this article is full compensation for providing the marking.

Conform to standard spec 646.5(3).

**53. Electrical Pullbox Type I, Item SPV.0060.350;
Electrical Pullbox Type III, Item SPV.0060.351;
Electrical Pullbox Type V, Item SPV.0060.352;
Electrical Pullbox Type VII, Item SPV.0060.353.**

A Description

Furnish and install electrical pull boxes according to standard spec 653, the plan details, and as hereinafter provided.

B Materials

Electrical Pullbox, Type I shall be gray-colored polymer-concrete construction. Box dimensions for Type I shall be 19" wide X 32" long X 24" deep. The Type I box and cover shall be rated to withstand 15,000 lbs over a 10" square with a minimum test load of 22,568 lbs.

Electrical Pullbox, Type III shall be high-density polyethylene box and concrete polymer lid or concrete polymer construction for box and lid. Box dimensions for Type III shall be 12" wide X 12" long X 12" deep. The Type III box and polymer cover shall be rated to withstand 20,000 lbs.

Electrical Pullbox, Type V shall be high-density polyethylene box and concrete polymer lid or concrete polymer construction for box and lid. Box dimensions for Type V shall be 24" wide X 36" long X 24" deep. The Type V box and polymer cover shall be rated to withstand 20,000 lbs.

Electrical Pullbox, Type VII shall be high-density polyethylene box and concrete polymer lid or concrete polymer construction for box and lid. Box dimensions for Type VII shall be 30" wide X 50" long X 36" deep. The Type VII box and polymer cover shall be rated to withstand 20,000 lbs.

Each cover shall have the logo "TRAFFIC SIGNAL" imprinted from the manufacturer.

C Construction

Install Electrical Pullbox (Type) according to the pertinent provisions of standard spec 653.3 and the plan details.

D Measurement

The department will measure Electrical Pullbox (Type) as each individual electrical pullbox (type), acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.350	Electrical Pullbox Type 1	EACH
SPV.0060.351	Electrical Pullbox Type 3	EACH
SPV.0060.352	Electrical Pullbox Type 5	EACH
SPV.0060.353	Electrical Pullbox Type 7	EACH

Payment is full compensation for furnishing and installing all materials, including crushed aggregate; and for excavation, backfill, and disposal of surplus materials.

- 54. Concrete Bases Type G, Item SPV.0060.354;
Concrete Bases Type LB-2, Item SPV.0060.355;
Concrete Bases Type LB-3, Item SPV.0060.356;
Concrete Bases Type LB-8, Item SPV.0060.357;
Concrete Bases Type M, Item SPV.0060.358;
Concrete Bases Type P, Item SPV.0060.359.**

A Description

Construct concrete foundations, including furnishing and installing necessary hardware, as shown on the plans, according to the pertinent provisions of standard spec 654, and as hereinafter provided.

B Materials

Furnish Grade A, A-WR, A-FA, or A-IP concrete masonry conforming to the requirements of standard spec 501. Conduit cast within the bases shall be Schedule 40 polyvinyl chloride (PVC) electrical conduit and shall conform to the requirements of standard spec 652.

Furnish anchor bolts for Type G bases made from high-strength steel (50 ksi minimum yield strength), ASTM A36, and fit each with two hard washers and two heavy hex nuts. Each bolt shall have approximately 3 inches or more of thread at the top end. The bolts, washers and nuts shall be galvanized

Furnish anchor bolts for LB-2, LB-3, LB-8 and Offset bases made from high-strength steel (50 ksi minimum yield strength), ASTM A36, and fit each with two hard washers and two heavy hex nuts. Each bolt shall have approximately 6 inches or more of thread at the top end. The bolts, washers, and nuts shall be galvanized.

Furnish 1 ¼-inch x 48-inch bolts for the LB-8 bases, including a 4-inch L-bend at the bottom. Furnish 1-inch x 40-inch bolts for the LB-3 bases, including a 4-Inch L-bend at the bottom. Furnish 4-¾ inch x 24-inch bolts for the LB-2 bases. Furnish ¾ inch x 19-inch bolts for the Type G bases.

Include a concrete maintenance platform on the Type M and Type P bases. Generally, construct the Type M and Type P bases according to the standard detail drawing Concrete Control Cabinet Bases. Confirm the location of the conduits in the base with the City of Madison. Anchor bolts, nuts, and washers for Concrete Controller Base, Type P, will be provided and installed by the City of Madison when installing signal control cabinets. Conform bar steel reinforcement to the requirements of standard spec 505.

C Construction

Place the bases with one side parallel to the centerline of the street.

Forms shall be of sufficient depth to provide a minimum of 12 inches of formed base below the finished grade on the low side of the base. The top surface of the base shall be level with a ¾-inch bevel on the edges and shall be given a rubbed finish.

Cast anchor bolts into the base as shown on the plans. Verify the bolt circle diameters before constructing the bases.

Furnish and install manufactured elbows in all bases, except as noted on the details. Install elbows to permit installation of conduit in as nearly straight-line runs as possible without unnecessary bends. Bases not installed to this standard will not be accepted.

Extend existing conduit into the bases. Elbows shall conform to the requirements of the type of conduit entering the base. Install an extra elbow in each base at the end of a run as directed by the engineer. Install extra elbows in any base as directed by the engineer.

Do not erect poles on the concrete bases until the bases have cured for at least seven days. All concrete bases require a rubbed finish down to finished grade.

D Measurement

The department will measure Concrete Base (Type) by the unit, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.354	Concrete Bases Type G	EACH
SPV.0060.355	Concrete Bases Type LB-2	EACH
SPV.0060.356	Concrete Bases Type LB-3	EACH
SPV.0060.357	Concrete Bases Type LB-8	EACH
SPV.0060.358	Concrete Bases Type M	EACH
SPV.0060.359	Concrete Bases Type P	EACH

Payment is full compensation for furnishing and installing all materials including conduit, bushings, caps and/or plugs, ground rod, anchor bolts, cadwelding, copper grounding wire; bar steel reinforcement, and concrete masonry; for providing openings through existing pavement where required; for excavation, including hand-digging as required, backfill, and disposal of surplus materials.

55. Concrete Bases Offset, Item SPV.0060.360.

A Description

This special provision describes construction of concrete street light bases, including necessary hardware, according to the pertinent provisions of standard spec 654 and as hereinafter provided.

B Materials

Concrete masonry shall be Grade A, A-WR, A-FA, or A-IP conforming to the requirements of standard spec 501. Conduit cast within the bases shall be Schedule 40 polyvinyl chloride (PVC) electrical conduit and shall conform to the requirements of standard spec 652. Anchor bolts shall be made from high strength steel (50 KSI minimum yield strength), ASTM A36, and each shall be fitted with two hard washers and two heavy hex nuts. Each bolt shall have approximately 6 inches or more of thread at the top end. The bolts, washers, and nuts shall be galvanized. Bar steel reinforcement shall conform to the requirements of standard spec 505.

C Construction

Locate proposed street light bases as shown in the plans according to the Construction Staking Electrical Systems bid item. Where potential underground conflicts exist, locate the existing utility. Hand excavation may be required. MG&E gas requires an inspector to be present when excavating near MG&E gas facilities according to the Utilities article of these special provisions. The engineer will determine whether to adjust the base location laterally to avoid the conflict or require the use of an Offset Base. Install rock shield between the main and street light base as directed by MG&E personnel. MG&E will supply the rock shield.

Forms shall be of sufficient depth to provide a minimum of 12 inches of formed base below the finished grade on the low side of the base. The top surface of the base shall be level with a 3/4-inch bevel on the edges and shall be given a rubbed finish.

Anchor bolts shall be cast into the base as shown on the plans. Bolt circle diameters shall be verified before constructing the bases.

Manufactured elbows shall be furnished and installed in all bases by the contractor, except as noted on the details. Elbows shall be installed to permit conduit to be installed in as nearly straight-line runs as possible, without unnecessary bends. Bases not installed to this standard will not be accepted.

Existing conduit shall be extended into the bases. Elbows shall conform to the requirements of the type of conduit entering the base. Each base at the end of a run shall have an extra elbow installed as directed by the engineer.

Extra elbows shall also be installed in any base as directed by the engineer. Poles shall not be erected on the concrete bases until the bases have cured for at least seven days.

All concrete bases shall require a rubbed finish down to finished grade.

D Measurement

The department will measure Concrete Base Offset 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.0060.360	Concrete Base Offset	EACH

Payment is full compensation for furnishing and installing all materials including conduit, bushings, caps and/or plugs, ground rod, anchor bolts, cadwelding, copper grounding wire; bar steel reinforcement, and concrete masonry; for providing openings through existing pavement where required; for excavation, including hand-digging as required, backfill, and disposal of surplus materials.

- 56. Pole 20-Foot, 11 Gauge, Black, Double Fixture Item SPV.0060.368;
Pole 20-Foot, 7 Gauge, Item SPV.0060.369;
Pole 30-Foot, 7 Gauge Single Simplex, Item SPV.0060.370;
Pole 30-Foot, 11-Gauge Single Simplex, Item SPV.0060.371;
Pole 20-Foot, 11 Gauge, Black, Single Fixture Item SPV.0060.372;
Pole 30-Foot, 11 Gauge, Black, Twin Simplex, Item SPV.0060.373.**

A Description

This special provision describes furnishing and installing poles and arms according to standard spec 657, and as provided in these special provisions.

B Materials

All poles shall be round, with a base plate welded to the bottom end of the pole. All poles are to be a single section, with an eight-inch diameter shaft at the base and 0.14 inches per foot taper

Base plates shall have a slotted opening for anchor bolts.

All 30-foot poles shall be designated to withstand a 90 mile per hour sustained wind velocity and 117 mile per hour gust velocity with the bracket arm and luminaire in place.

All 20-foot 7 gauge poles will be used for supporting aluminum trombone arms holding signs and/or signal heads.

All 20-foot 11gauge poles shall be black and accommodate either single (Arm Mount Single) or double

C Construction

Metal poles shall be set and plumbed with the use of leveling nuts furnished with the anchor bolts. Luminaires shall be leveled after erecting and leveling the metal standards with bracket arms. The proper leveling method may be obtained from the manufacturer's

instruction manual. Nuts on anchor and transformer bolts shall be torqued to 175-200 foot pounds or as directed by the engineer. Rust, corrosion, and anti-seize protection shall be provided at all threaded assemblies by coating and mating surfaces with Markal (hightemp – E-Z Break), Never-Seez (Marine Grade), LPS 100, Lubriplate, or approved equal.

The stranded copper ground wire that is installed as a part of base construction shall be attached with an approved connector (Fargo GC 202 or approved equal) to a ground nut locate inside the pole opposite the handhole.

When transformer bases are not installed, grout shall be troweled between the pole and concrete base and finished at an angle from the edge of the pole base to the outer edge of the foundation. A ½ inch slot for drainage shall be left through the grouting on the street side at the top of the concrete base.

D Measurement

The department will measure Pole (description) 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.0060.368	Pole 20-Foot 11 Gauge, Black, Double Fixture	EACH
SPV.0060.369	Pole 20-Foot 7 Gauge	EACH
SPV.0060.370	Pole 30-Foot 7 Gauge, Single Simplex	EACH
SPV.0060.371	Pole 30-Foot 11 Gauge, Single Simplex	EACH
SPV.0060.372	Pole 20-Foot 11 Gauge, Black, Single Fixture	EACH
SPV.0060.373	Pole 30-Foot 11 Gauge, Black, Twin Simplex	EACH

Payment is full compensation for furnishing and installing all materials, including poles, all hardware and fittings necessary to completely install the pole; for corrosion prevention when required; for installing identification plaques when required; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

57. Luminaires Path and Mounting Bracket, Item SPV.0060.374.

A Description

This item number includes furnishing and installing Cooper fixture luminaires. This item also includes any adjustments to the pole attachment holes.

Contact Gretchen Aviles Pineiro, City of Madison Traffic Engineering, (608) 266-4899, at least 48-hours prior to removing existing fixtures to schedule pick-up of existing fixtures.

B Materials

B.1 Material Qualifications

Provide an integral LED lighting unit. All parts not specifically mentioned, which are necessary and are regularly furnished in order to provide a complete unit, shall be furnished by the successful bidder at the bid price and shall conform in quality of material and workmanship to that usually provided by the engineering practice indicated in this specification.

Furnish luminaires of the "cutoff" type conforming to all general aspects for luminaires as specified under standard spec 659 except as modified herein. All equipment to be furnished shall be new, unused, and the latest model being produced. The LED Luminaire shall be a Cooper Lighting black LED Talon luminaire (part number "TLM-E02-LED-E1-SL2-BK-8030-DIM").

B.2 Manufacturer's Warranty

The manufacturer shall warrant that goods provided for this project will conform to applicable specifications, drawings, designs, samples, descriptions and will be free from defects in material and workmanship and will be fit for the particular purpose intended by the city.

This warranty shall remain in effect for one year. The warranty period commences on the date the luminaires are installed.

Under this warranty, the manufacturer agrees to replace within a reasonable time, any part, feature or product found to be defective during the warranty period at no cost to the City of Madison.

New lighting units will not be accepted before luminaires and lamps have operated without failure for a period of at least ten consecutive nights.

C Construction

Install LED Luminaires and Mounting Bracket (Type) according to the pertinent provisions of standard spec 659 and as the manufacturer directs.

D Measurement

The department will measure LED Luminaires and Mounting Bracket (Type) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.374	Luminaire Path and Mounting Bracket	EACH

Payment is full compensation for furnishing all materials, including all luminaires and side of pole mounting hardware.

58. **Traffic Signal Trombone Arms Aluminum 22-Foot, Item SPV.0060. 375; Traffic Signal Trombone Arms Aluminum 18-Foot, Item SPV.0060. 376; Traffic Signal Trombone Arms Aluminum 15-Foot, Item SPV.0060.377.**

A Description

This special provision describes furnishing and installing trombone mast arms and all necessary miscellaneous hardware needed to complete the installation of the trombone mast arm as shown on the plans, in the standard specifications, and as hereinafter provided.

B Material

The traffic signal trombone arm shall be designed to withstand loadings resulting from 12" 4-section aluminum signal with backplates and an 18" x 90" aluminum street name sign mounted on the arm as shown on the drawing. Design factors according to the AASHTO Specifications for the Design and Construction of Structural Supports for Traffic Signals, Signs, and Highway Lighting, together with a wind pressure resulting from a wind velocity of 80 miles per hour plus gust factor, shall be applied to these arms, with the above signals attached.

Certification of compliance with these stated AASHTO performance requirements shall be furnished with submission of the material list.

Shop drawings shall be submitted and shall include dimensions of width, depth, length and thickness of all members and ASTM designation and alloy designation of aluminum members.

The trombone arm shall be aluminum and shall consist of round or oval upper and lower members joined by one or more tubular vertical struts welded to them. The pole end of the mast arm shall have a mounting clamp welded to it which will permit the attachment of the mast arm to a round pole of varying diameter. The lower clamp shall be 5-7/8" I.D. and the upper clamp shall be 5-1/2" I.D. The design of the clamps shall accommodate some variation in pole diameter while still attaining full contact between the clamp and the pole. The surface area of the clamp contacting the pole shall be sufficiently large and designed to prevent horizontal rotation in windy conditions. The bolts connecting the arm bracket to the back bracket shall be galvanized steel; stainless steel bolts are not acceptable. The vertical strut, which has provision for mounting the signal head, shall also provide for horizontal adjustability along the main

mast arm members so that signal heads of various lengths with backplates, up to and including 5-section 12" heads, can be accommodated within the confines of the mast arm. The cross tees for signal heads shall each have two slots on the threaded hubs that face each other.

The wiring raceway entrance shall be through the lower mounting bracket.

The mast arm shall have a uniform natural aluminum finish and shall be clean. No painting or other corrosion preventive maintenance will be required.

The portion of the main members of the arm to which the arm attachment bands are welded shall be one piece seamless tapered aluminum tubes.

The main arm member shall be attached to the pole using extruded aluminum clamps fastened with continuously threaded stainless steel bolts with nuts and washers meeting the requirements of ASTM Designation A-320. Strength and/or grade specification ratings shall be listed on the shop drawings. Stiffeners or gussets shall be provided at the joints between the main arm tubes and arm clamps to provide adequate strength to resist side loads.

Shims shall be made of an aluminum alloy.

A permanent imprint of the "Type" and "Year of Manufacture" shall be made on the underside of the lower member of each arm.

C (Vacant)

D Measurement

The department will measure Traffic Signal Trombone Arms Aluminum (Length) by each unit, acceptably complete and 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.0060.375	Traffic Signal Trombone Arm Aluminum 22-Foot	EACH
SPV.0060.376	Traffic Signal Trombone Arm Aluminum 18-Foot	EACH
SPV.0060.377	Traffic Signal Trombone Arm Aluminum 15-Foot	EACH

Payment is full compensation furnishing and installing all materials including all hardware, fittings, mounting clamps, shims and attachments necessary to completely install the mass arm; and for furnishing all equipment and incidentals necessary to complete the work.

59. Traffic Signal Control Cabinet, Item SPV.0060.378.

A Description

This special provision describes providing a door-in-door style, open bottom, base mounted cabinet, with exterior dimensions of 55" height, 38" width, and 26" depth. The cabinet shall be of weatherproof construction, fabricated from sheet aluminum at least

0.125-inches thick and adequately reinforced. A heavy duty stainless steel handle (5/8-inch minimum diameter) and latch shall be provided. The door hinges shall be all stainless steel and continuous for the full height of the door. The cabinet interior shall have a zinc chromate prime coat and be finished with one coat of rust-resistant high gloss white enamel. The cabinet exterior shall be natural mill finish. Two adjustable-height shelves of 12-13 inches depth are required.

B Materials

B.1 Locks

Provide a main cabinet door with a tumbler lock keyed for a Corbin No. 2 key. Equip the auxiliary (Police Panel) door with a lock for a standard police key. Furnish a key for each lock. When the door is closed and latched, with the key removed, the door shall lock. The locking bar shall be a solid non-rusting metal with a square cross-section, equipped with a double roller on each end.

B.2 Door Stop

Equip the cabinet with a door stop assembly to hold the door open at approximately 90° and 150°.

B.3 Weather Protection and Incandescent Light

Equip the cabinet with an electric fan assembly with a minimum capacity of 100 cubic feet per minute. Mount the fan in the top of the cabinet in a manner to prevent rain from entering the cabinet. The fan shall be thermostatically controlled and shall be manually adjustable to turn on between 80° F and 150° F. The cabinet fan circuit shall have fuse protection at 125% of the capacity of the fan motor.

Air intake near the bottom of the cabinet via louvered vents shall have a removable filter, including a gasketed aluminum filter replacement for use in the winter to prevent entrance of snow.

Mount an incandescent light socket in the upper front part of the cabinet.

B.4 Grounding

Provide a copper equipment grounding bus in each cabinet to accept up to #4 stranded wire. Ground the ground bus to the cabinet and provide at least 14 terminals of the tubular clamp type. Connect all ground bus together with a minimum #8 green copper wire.

B.5 Solid State Flasher

Furnish the cabinet with two 6 pin, 20 amp, double circuit solid state flashers, fully connected and operating.

B.6 Flash Transfer Relays

Provide electromechanical relays for opening and closing traffic signal field circuits. Furnish the cabinet supplied under this specification with four 2-pole transfer relays wired to transfer the vehicle phases. Cover relays used for this purpose, insulate, or locate so that electrically alive parts are not readily exposed. All relays shall be next to each other and mounted on the back panel.

All contact points which make, break, and carry current to the signal lamps shall be of silver-cadmium, coin silver or equivalent material. Contact shall be capable of making, breaking, and carrying a current of 10 amperes, 120 volts, without undue pitting. Relay coils shall have a power consumption of 10 volt amperes or less and shall be designed for continuous duty. Contact points which make, break, and carry current to the solid state switchpacks shall be capable of carrying 40 amperes of 120 volts without undue pitting.

The transfer relay shall withstand a potential of 1500 volts at 60 Hertz between insulated parts, and between current carrying parts and grounded and non-current carrying parts. Each transfer relay shall have a one cycle surge rating of 175 amperes RMS (247.5 amperes peak). Each transfer relay shall be unaffected by electrical noise, having a rise time of up to 200 volts per microsecond. Each relay shall be unaffected by the 500 volt power noise transient test.

The flash transfer relay shall energize the flasher and transfer field signal light circuit from the controller to flasher and shall permit flashing lights as programmed on the main street or highway and on the cross street or streets. Operation of the flash transfer relay circuit shall not prohibit the operation of the controller but shall prohibit operation of the field signal light circuits by the controller.

The flash transfer relay shall be provided with a connector for the following pin assignments:

Pin Function

- Relay Coil
- Relay coil
- NC Ckt. #1
- NC Ckt. #2
- Relay Common Ckt. #1
- Relay Common Ckt. #2
- No. Ckt. #1
- No. Ckt. #2

Wire the flash circuit in a fail-safe manner so that the intersection will revert to and remain in the flashing mode whenever and for as long as either the controller or the monitor is disconnected. Support the relays with a rack at least 8 1/2 inches out from each socket.

B.7 Flash Sequence Programming

A programming means shall be provided to determine if flashing yellow or red appears on the output field terminals to the signal heads. Accomplish programming with simple tools such as a screwdriver. Conform the sequence timing for flash by automatic call-up with the MUTCD.

B.8 Load Switches

Furnish eight 3-circuit load switches, discrete type, with each cabinet. The load switch panel shall have a bracket support for its full length and extending out 8 1/2 inches from the panel socket. The bracket support is intended to reduce switch loosening from vibrations and to prevent switches from falling down if disengaged from the socket.

B.9 Harness Wiring

The wiring and cabinet panel arrangement shall provide for full dual ring eight phase actuated operation. A 12-channel conflict monitor harness shall be supplied and wired in each cabinet. All cabinet wiring harnesses shall be neat, firm and routed to minimize crosstalk and electrical interference. Loop harnesses shall be routed to the right (hinge) side of the cabinet and attached up to shelf level to avoid harnesses dangling in front of the door.

Wiring containing AC shall be routed and bundled separately from all low voltage control circuits. Fuses and surge protection shall be furnished for all interconnect circuits. All conductors and live terminals or parts, which could be hazardous to maintenance personnel, shall be covered with suitable insulating material.

B.10 Terminal Blocks

Terminal block connections shall be a minimum of 8 inches from the bottom of the cabinet. The terminal blocks provided shall be two-position barrier type. Terminal blocks shall be so arranged that they shall not upset the entrance, training and connection of incoming field conductors. All terminals shall be clearly identified and shall be permanently associated with the terminal block.

Terminal blocks used for field wiring connections (field terminals) shall be capable of securing conductors with 10-32 or larger nickel or cadmium plated brass binder head screws.

Terminal blocks used for the applied AC power shall be capable of securing conductors with a 10-32 nickel or cadmium plated brass binder head screws.

There shall be field terminal blocks provided for the connection of all loop detectors. Where a card rack is required, terminal blocks to accommodate 16 detector channels shall be provided.

B.11 Detectors Card Rack

The detector card rack shall provide four slots for four-channel detectors (a total of 16 detector channels) and a power supply slot. The card rack shall have flanges turned out. The card rack shall be fully wired and connected to cabinet terminals 1 through 16. Terminals 1 through 8 shall be associated with vehicle phases 1 through 8, respectively. A four-channel power supply shall be supplied with per-channel fusing and output indicators for each channel. The card rack shall be mounted on the top shelf, left side as one looks into the cabinet.

B.12 Detectors

The cabinet shall contain four 4 channel digital loop detector amplifiers approved for use by City of Madison Traffic Engineering and shall have at the minimum the following characteristics: Rack mount design, 2" maximum width for front panel. User selection for the following must be available on the front panel without requiring auxiliary devices:

- Pulse or presence
- Sensitivity, minimum of 6 levels
- Sequentially scan channels or other suitable means to reduce crosstalk
- Display detection and faults for each channel
- Self tuning

B.13 Power Panel

The cabinet shall have a power distribution panel containing the following elements:

- Surge protection provided by use of a varistor or other suitable equipment.
- Two 30 amp Radio Interference Suppressors.
- 50 amp single pole Main Breaker followed by dual 30 amp Main Circuit Breakers with single common trip.
- 15 amp Auxiliary Equipment Circuit Breaker.
- Two 30 amp Power Relays (Mercury Contactors).
- Neutral Bus Bar Isolated from Cabinet Ground.
- Ground Bus Bar.
- EDCO SHP 300-10 Power Line Surge Protector.

The mercury contactor shall be normally open and capable of switching 30 amperes at 120 volts AC.

A neutral bus terminal shall be provided with at least 14 terminals of the tubular clamp type able to accept up to #4 stranded wire.

B.14 Police Panel

The main door of the cabinet shall have a police panel door. Behind this door shall be a panel with a minimum of a toggle switch labeled "SIGNALS ON-OFF" and a toggle switch labeled "SIGNALS FLASH-AUTO." The signals on-off switch shall cause all intersection displays to be turned off and the controller AC power to be removed when placed in the off position.

In the flash position, the signals flash switch shall cause the intersection to be placed in flashing position and the controller shall stop time.

B.15 Maintenance Panel

Provide a maintenance panel on the inside of the main door containing the following:

GFCI duplex convenience outlet.

- Stop time switch.
- Controller on/off switch.
- Vehicle and pedestrian detector actuation test push buttons.
- Incandescent light switch.

The stop time switch shall be a three-position toggle switch labeled ON, OFF, and AUTO. In the ON position, stop timing power shall be applied to the controller. In the OFF position, stop timing shall be removed from the controller if it has been applied by the conflict monitor or other auxiliary device. The AUTO position shall be the normal operating position and allow auxiliary devices to apply stop timing inputs to the controller. The conflict monitor shall be wired through the stop time switch such that when in the AUTO setting and a conflict is detected, stop timing shall be applied to the controller.

The controller switch shall be a two-position toggle switch labeled ON and OFF. In the OFF position, the intersection shall be placed in flashing operation and the controller turned off.

There shall be a detector test push button or toggle switch for each vehicle and pedestrian phase. These shall be located to preclude accidental activation when the door is closed.

B.16 Pedestrian Button Wiring

Pedestrian push button logic shall be opto-isolated such that there will be no logic common carried out to each individual push button. The AC- from the field pedestrian push button shall activate the opto-isolated pedestrian push button relays when the field button is activated.

B.17 Testing, Labeling and Wiring Diagram

The vendor shall thoroughly test the cabinet wiring and auxiliary devices with a controller and monitor (if the harness is to be furnished by the vendor) in place.

All equipment furnished in the cabinet shall be clearly and permanently labeled.

A good reproducible 24-inch by 26-inch mylar wiring diagram shall be supplied to the city.

B.18 Warranty

The vendor shall warrant the performance and construction of the fully-wired cabinet to meet the requirements of this specification, and shall warrant all wiring parts, components, and appurtenances against defects in design, material and workmanship for a period of one year from the date of installation. In the event defects and failures become apparent during this time, the vendor shall repair and/or replace all defective parts or appurtenances at no additional expense to the city. This specification is to construe that any part, or parts, that fail to function properly shall be replaced at no charge to the city.

B.19 Cabinet Design for City Review Before Manufacturing.

The vendor shall supply the city with a complete set of plans for the cabinet for review before manufacturing the cabinet. After city approval of the design as received or as modified by joint agreement between the city and the vendor, the cabinets shall be wired according to the approved design and specifications. The city will complete its review within five work days from receipt of the cabinet design.

C (Vacant)

D Measurement

The department will measure Traffic Signal Control Cabinet by each unit, acceptably completed and delivered to the City of Madison.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.378	Traffic Signal Control Cabinet	EACH

Payment is full compensation for furnishing and delivering all materials to the City of Madison, 1120 Sayle Street and for furnishing all labor, equipment and incidentals necessary to complete the work.

60. Lighting Control Cabinet, Item SPV.0060.380.

A Description

This special provision describes furnishing and installing a lighting control cabinet with all electrical components and wiring assembled.

B Materials

B.1 Contactors

Furnish an open type, multi-pole, 30 Amp, 600V electrically held contactor with 120V control coil as required for each proposed circuit.

B.2 Photocell

Furnish a button type photocell and install as shown on the detail. Apply silicone caulk to maintain the watertight integrity of the enclosure. The photocell shall be rated for 120V, 1500W with 30-60 second delay between "on-off" operations.

B.3 Panel

Furnish a 120/240-volt, 100A main lugs only, single-phase, 20-circuit panel board in a 14-inch (approximate) wide NEMA 1 enclosure. Provide copper ground and split neutral bus bars in addition to copper bus bars. Provide bolt-on, thermal-magnetic circuit breakers that clearly indicate ON, OFF, or TRIPPED position in the panel.

B.4 Selector Switches

Furnish "Hand-Off-Auto" switches to control each circuit separately. Provide a "Hand- Off-Auto" legend plate for each switch. Mount the switches adjacent to the respective contactor.

B.5 Cabinet Enclosure

Provide a NEMA 3R enclosure made from .125-inch Type 5052-H32 aluminum. The doorframe shall be double flanged and all exterior seams shall be ground smooth. Door handle shall be 3/4-inch diameter stainless steel with three point latching system and hasp. Main door shall be sealed with a closed-cell neoprene gasket. Main door hinge shall be continuous 0.075-inch thick stainless steel with a 0.25-inch stainless steel hinge pin. Provide an aluminum-mounting panel at back (interior) of enclosure. Provide a weatherproof pad lock with 2-3/8-inch wide body, re-pinnable/ replaceable cylinder, and five keys. There shall be no louvers or Corbin main door lock. Applicable code working clearances shall be maintained between equipment mounted within the enclosure.

B.6 Surge Arrester

Furnish a surge suppressor to protect the panel board. The surge suppressor shall provide 6 modes of surge protection, meet UL1449 Second Edition with 32Ka per phase and 48KA system peak surge current, contain LED line indicators, and approximate dimensions of 4.54-inch X 2.58-inch X 0.22-inch. Connect the surge suppressor to the branch circuit breaker as indicated on the plans.

B.7 Field Wiring Termination Blocks

All connections from the field wiring to equipment in the lighting control cabinet shall be made through termination blocks. Provide quantity of channel mount, NEMA type single terminal blocks as indicated on plans that are capable of holding #12 to #1/0 wire with solderless box lugs, for power, neutral and grounding connections. Mount the terminal blocks on a mounting channel of appropriate length with end anchors and an end barrier. Each terminal block shall have a label indicating the appropriate circuit number, neutral

('N') or ground ('G') wire connected to block; handwritten numbers and letters are not acceptable means of identification. Make connections from the underground field wiring to the equipment in the lighting control cabinet through distribution blocks.

B.8 Convenience GFI Receptacle and Cabinet Light Fixture

Furnish a 20 ampere, 120 volt commercial grade GFI duplex receptacle within a galvanized steel outlet box with cover. 150 watt, 250 volt commercial grade lamp holder with galvanized steel box and 60 watt incandescent bulb. Furnish switch to turn on cabinet light by opening the cabinet door.

B.9 Incidental Materials

Secure all wiring using screw attachment type straps; adhesive type shall not be allowed.

C Construction

Assemble the control cabinet as shown on the plans. Pretest the cabinet prior to shipment to the site. Mount all equipment to panel in enclosure. Train the cables in straight horizontal and vertical directions and be parallel next to and adjacent to other cables whenever possible. Mount the cabinet to the concrete base per the manufacturer's requirements. The work under this bid item includes connection and termination to the feeder system wiring.

D Measurement

The department will measure Lighting Control Cabinet, completed according to the contract accepted, as a single complete unit of work.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.380	Lighting Control Cabinet	EACH

Payment is full compensation for furnishing and installing photo control, contactors, panel, distribution blocks, surge arrester, enclosure, grounding, wiring and electrical components; mounting to the concrete base; and for all labor, tools, equipment, and incidentals necessary to complete the work.

61. Malfunction Management Unit (MMU), Item SPV.0060.400.

A Description

This special provision describes furnishing a shelf-mountable, 16-Channel, solid-state MMU with Ethernet capability to the City of Madison. The City of Madison will install this item as part of the construction of this project.

B Materials

Provide one shelf-mountable, 16 channel, solid-state MMU with Ethernet capability. The MMU shall meet the requirements of Section 4 of the NEMA TS2 Standard. The MMU shall be capable of the following:

Detecting simultaneously active inputs of Green (Walk), Yellow, or Red (Don't Walk) on the same channel.

Determining if the field signal input states detected as active or inactive by the MMU correspond with the data provided by the Controller Unit.

Monitoring an optional external watchdog output from a Controller Unit or other external cabinet device.

Monitoring an intersection with up to four approaches using the Flashing Yellow Arrow (for protected/permissive left and right turn movements).

Event logging for the following; AC Line log, Prior/Previous Faults log, and Monitor Reset Log. All log entries shall include a date and time stamp.

All monitor functions shall be capable of being programmed through the front panel, without the need for computers or special programs cards.

A built-in Diagnostic Wizard shall be provided that displays detailed diagnostic information regarding the fault being analyzed. This mode shall provide a concise view of the signal states involved in the fault, pinpoint faulty signal inputs, and provide guidance on how the technician should isolate the cause of the malfunction.

The MMU shall have an LCD display that allows for viewing of log files and field indications, as well as the viewing and setting of date and time and configuration parameters.

C (Vacant)

D Measurement

The department will measure Malfunction Management Unit (MMU) by each unit, acceptably completed and delivered to the City of Madison.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.400	Malfunction Management Unit (MMU)	EACH

Payment is full compensation for furnishing and delivering the Malfunction Management Unit to the City of Madison, 1120 Sayle Street.

62. Traffic Signal Ethernet Switch, Item SPV.0060.401.

A Description

This special provision describes furnishing and installing an Ethernet switch in an existing traffic signal cabinet, as specified in standard spec 651, 655, 670, 674, and 675, as shown on the plans, and as provided hereinafter.

B Materials

Furnish Cisco IE-4000-8T4G-E Ethernet switches as shown in the plans.

Provide all necessary cables between the Ethernet switch and device or devices as shown in the plans.

C Construction

Install the traffic signal Ethernet switch in an existing traffic signal cabinet. Connect it to devices as shown on the plans, according to the manufacturer's recommendation, and as directed by the engineer.

Contact Mike Benzschawel at the City of Madison Traffic Engineering shop at (608) 266-9031 a minimum of 7 working days in advance to coordinate installing equipment in existing traffic signal cabinet.

D Measurement

The department will measure Traffic Signal Ethernet Switch as each individual traffic signal Ethernet switch, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.401	Traffic Signal Ethernet Switch	EACH

Payment is full compensation for furnishing and installing an Ethernet switch, all necessary incidental wiring and hardware, making all necessary connections.

63. Backplates Signal Face, 3-Section 12-Inch Item SPV.0060.402; Backplates Signal Face, 4-Section 12-Inch, Item SPV.0060.403.

A Description

This special provision describes furnishing and installing backplates for signal faces.

B Materials

Furnish Backplates Signal Face (Size) that are according to the pertinent requirements of standard spec 658 and these special provisions.

Backplates for 12" signal heads shall provide a 5" wide black band around the signal head. The backplates shall be an approved black rigid material, such as vacuum formed ABS plastic. The backplates shall match the signal heads being furnished under this bid, equipped with all necessary holes, mounting devices. All mounting hardware shall be stainless steel.

C Construction

Install the backplates according to standard spec 658.3, the manufacturer's instructions, and as shown on the plans.

D Measurement

The department will measure Backplates Signal Face (Description) 12-Inch 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.0060.402	Backplates Signal Face, 3 Section 12-Inch	EACH
SPV.0060.403	Backplates Signal Face, 4 Section 12-Inch	EACH

Payment is full compensation for furnishing and installing all materials, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

**64. Luminares Underpass LED 80W, Item SPV.0060.404;
Luminares Underpass LED 160W, Item SPV.0060.405.**

A Description

This special provision describes furnishing and installing lighting systems through pedestrian underpasses as shown in the plans.

B Materials

Provide luminaires constructed of marine grade, heat treated extruded aluminum with a polyester powder coat. Provide luminaires having vandal-resistant polycarbonate lens and include a lifetime warranty on any fixture damaged due to vandalism.

Provide luminaires with the following minimum requirements:

- Provide luminaires having 120-277V 50/60 Hz, 350 mA drive current, and 4000K color temperature.
- Provide luminaires that are new, unused, and the latest model being produced.
- Provide luminaires manufactured by Luminaire Lighting, Vision 12 HP LED (Order No. VPF123-80W-4000K-DIM-120-CP-GRY-WET-TX/SD and VPF124-160W-4000K-DIM-120-CP-GRY-WET-TX/SD).

Provide stainless steel hardware and fittings.

C Construction

Provide 4-inch x 4-inch x 4-inch outlet box for each luminaire that is suitable for casting into concrete walls.

Furnish and install luminaires underpass LED through pedestrian underpass with stainless steel hardware and fittings according to standard spec 659.3.4 and as shown on the plans.

D Measurement

The department will measure Luminares Underpass LED as each individual luminaire underpass LED, 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.0060.404	Luminares Underpass LED 80W	EACH
SPV.0060.405	Luminares Underpass LED 160W	EACH

Payment is full compensation for furnishing and installing luminaires; for luminaire mounting and outlet boxes as required; for stainless steel hardware and fittings; coordination.

65. Traffic Signal Controller, Item SPV.0060.407.

A Description

This special provision describes furnishing a traffic signal controller with auxiliary equipment to the City of Madison.

B Materials

Furnish the following:

- Econolite Cobalt controller with HTR, data key, and Ethernet.
- FSK TLM 25 pin for this controller.
- Econolite TIO board with harness.
- D connector interface harness and board.

C (Vacant)**D Measurement**

The department will measure Traffic Signal Controller by each unit, acceptably completed and delivered to the City of Madison.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.407	Traffic Signal Controller	EACH

Payment is full compensation for furnishing and delivering the signal controller, and all auxiliary equipment, to the City of Madison, 1120 Sayle Street, and for furnishing all labor, equipment and incidentals necessary to complete the work.

66. Furnish & Install 16-Inch Water Valve, Item SPV.0060.450.**A Description**

This work shall consist of furnishing and installing all valves as identified on the plan and as required to complete the installation of the proposed water main according to section 704.6 of the City Standard Specifications and as hereinafter provided.

Proposed valves associated with pressure taps, as indicated on the plans, are not to be included in these items.

B Materials

Furnish materials according to section 704.6 of the City Standard Specifications. These items include furnishing all materials; bedding the valves; excavating, dewatering and compacting the trenches; installing valves, valve boxes and any necessary extensions; adjustments of valve boxes; installing and removing sheeting and bracing; all tools, labor, equipment, restraint, polyethylene encasement, thrust restraint and any other appurtenances required to furnish and install valves as required.

C Construction

Install valves according to section 704.6 of the City Standard Specifications. Furnish and install valve box extensions where needed. All valve box extensions are incidental to the installation of the valve.

D Measurement

The department will measure Furnish & Install 16-Inch Valve per completed unit, accordance with section 704.6 of the City Standard Specifications.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.450	Furnish and Install 16 Inch Water Valve	EACH

Payment per each shall be full compensation for all work as specified herein.

67. Cut-In or Connect to Existing Water System, Item SPV.0060.451.**A Description**

This work shall consist of all means and methods, equipment, tools, labor, and incidentals necessary for making a plug-removal connection or a cut-in connection to existing water mains, including thrust restrain against and water-tight capping of existing water mains associated with the work.

B Materials

Furnish materials according to section 704.12 of the City Standard Specifications.

C Construction

Perform the work according to section 704.12 of the City Standard Specifications.

D Measurement

The department will measure Cut-In or Connect to Existing Water System per completed unit, accordance with section 704.12 of the City Standard Specifications.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.451	Cut-In or Connect to Existing Water System	EACH

Payment per each shall be full compensation for all work as specified herein.

68. Adjust Water Valve Box Sections, Item SPV.0060.452.**A Description**

Work under this item may include a combination of the following:

- Adjust existing water valve box within a tolerance between ¼-inch to ½-inch below finished grade.
- In addition to the work described in (1), furnish and install a new water valve box top casting and lid where the engineer determines existing valve box top section is damaged or non-functioning.
- In addition to the work described in (1) and (2), furnish and install a new lower valve box section(s) where the engineer determines existing lower valve box sections to be damaged or non-functioning.

B Materials

Furnish materials according to section 704.20 of the City Standard Specifications.

C Construction

Perform the work according to section 704.20 of the City Standard Specifications

D Measurement

The department will measure Adjust Water Valve Box Sections per completed unit, accordance with section 704.20 of the City Standard Specifications.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.452	Adjust Water Valve Box Sections	EACH

Payment per each shall be full compensation for all work as specified herein.

69. Adjust MMSD SAS Special, Item SPV.0060.500.**A Description**

This special provision describes adjusting Sanitary Sewer Access Structure (Rim) castings as shown on the plans to the final proposed grades or directed by the City of Madison according to Article 205 of the City of Madison Standard Specifications - Latest Edition.

This bid item is required because the casting adjustment is greater than 9" of vertical adjustment to set the casting to the final grade or the chimney was determined to be in poor condition. Manhole adjustments less than 9" shall be paid for separately under standard bid item 611.811 Adjusting Manhole

Covers. If the manhole being adjusted is a poured in place structure, the maximum vertical adjustment of 9" will not apply.

B Materials

Furnish precast concrete barrel sections and manhole adjustment rings meeting the requirements of Article 507.3, as well as SDD 5.7.2 and 5.7.15 of the *city standard specifications*.

C Construction

Please call Ray Schneider (MMSD Sewer Maintenance Supervisor) at (608) 347-3628 five days prior to the adjustment. MMSD Sewer Maintenance will provide new castings as required.

Remove existing adjustment rings and concrete barrel section(s) as necessary to install new adjustment rings and/or barrel sections needed to reach the final proposed grade as shown on the plans or as directed by the City of Madison.

Rotate the existing cone section as shown on the plans or called for in the field.

Install an offset cone section and casting as shown on the plans. Adjustment ring heights exceeding 9 inches will not be allowed.

D Measurement

The department will measure Adjust MMSD SAS Special 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.0060.500	Adjust MMSD SAS Special	EACH

Payment is full compensation for excavating, exposing, backfilling, disposing of surplus material, and restoring the site; for necessary structure reconstruction or adjustment; offset cone and offset cone rotation and/or installation; and for furnishing and installing all materials, and select fill.

Manhole adjustments less than 9 inches will be paid for separately under bid item 611.811 Adjusting Manhole Covers.

70. Utility Line Opening (ULO), Item SPV.0060.550.

A Description

Excavate and uncover utilities for the purposes of determining elevation and potential conflicts, as shown on the plans or as directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction

The excavation will be done in such a manner that the utility in question is not damaged and the safety of the workers is not compromised.

The utility line openings will be performed as soon as possible and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Utility line openings will include a trench up to 5 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

All utility line openings will be approved and coordinated with the engineer. The utility engineers or their agents will be notified of this work a minimum of 3 days prior to the work so they may be present when the work is completed. The need for performing ULO's as shown on the plans will be verified since some of the utilities may have been relocated prior to the start of construction.

Replace pavement open to traffic within 24 hours of the excavation.

D Measurement

The department will measure (ULO) by the unit, acceptably completed. Where utilities are within 5' of each other at a potential conflict location, only one utility line opening will be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.550	Utility Line Opening (ULO)	EACH

Utility Line Opening, measured as provided above, will be paid for at the contract unit price each, which will be full compensation for the excavation required to expose the utility line, backfilling with existing material removed from the excavation, compacting the backfill material, restoring the site, cleanup, and for all labor, tools, equipment, transportation, and incidentals to perform the work.

Existing pavement, concrete curb, gutter, and sidewalk removals necessary to facilitate utility line openings will not be considered part of or paid for under Utility Line Openings but will be considered separate and measured and paid for separately as removal items. Replacement pavement, concrete curb, gutter, and sidewalk items will also be considered separate from Utility Line Openings and will be measured and paid for separately.

71. Fluid Thermal Backfill, Item SPV.0060.650.

A Description

Work under this bid item will include placing Fluid Thermal Backfill around ATC's 69KV line located east to west within the project limits parallel to USH 12, crossing Gammon Road north of the USH 12/Gammon Road westbound terminal. See Plan.

B Materials

The slurry will conform to the following 1 cubic yard mix:

- 30 lb. Type I Portland Cement
- 240 lb. Class C Fly Ash
- 1870 lb. Medium Aggregate (3/8" pea gravel)
- 1570 lb. Concrete Sand – 4100 (ASTM C-33)
- 320 lb. Water
- 200 psi Compressive Strength (28 days)

Notes:

- No air entraining agent will be allowed to be used with the mix design
- All design aggregate batch weights are saturated surface dry
- Aggregate batch weights will be adjusted for free moisture at time of mixing
- Admixture quantity may be varied within manufacturers recommended dosage to provide desired results

Use suppliers of Fluid Thermal Backfill that have been previously approved by ATC or an approved equal. Obtain ATC's approval of other suppliers prior to supplying the mix. Approved suppliers of Fluid Thermal Backfill include:

Wingra Redi-Mix Inc;
P.O. Box 44284
2975 Kapec Rd
Madison, WI 53744
Web Site: www.wingrastone.com
Central Dispatch Tel.: (608) 271-9388
Toll Free Tel.: (800) 249-6908
ATC Approved Thermal Flowable Backfill: Wingra Mix No. 912

Lycon, Inc.;
1110 Harding St.
Janesville, WI 53545
Tel.: (608) 754-7701 / (800) 262-8604
Web Site: www.lyconinc.com
14 plants in South Central Wisconsin
Central Dispatch Tel.: (608) 251-0073
Toll Free Tel.: (800) 955-8758 / (800) 955-7702
ATC Approved Thermal Flowable Backfill: Lycon Prod. # 956087S (M&M #748)

Prairie Materials
12005 West Hampton Avenue
Milwaukee, WI 53225
Phone: (414) 258-1985
(414) 258-7000
Fax: 414-258-4960
Website: www.prairie.com
ATC Approved Thermal Flowable Backfill: Prairie Materials Mix No. MX10386

C Construction

Work will be completed in accordance of ATC's utility crossing requirements. Mix design and installation method will be according to the materials section or ATC's requirements.

Each concrete truck will provide a batch mixture ticket prior to material placement. If a truck driver does not have the batch mixture ticket, that load will be rejected. During and prior to placement, take all necessary precautions not allow the Fluid Thermal Backfill material to segregate.

Remove all debris and standing water from the trench prior to the placement of the Fluid Thermal Backfill.

If the Fluid Thermal Backfill is being placed around coated pipes, do not dump material directly on the pipe; use a baffle, such as a sheet of plywood or similar method, to deflect the fill material.

Use appropriate methods to eliminate the occurrence of air voids around duct banks. If vibration is used, do so in a manner such that the vibration does not affect the integrity of conduit, pipe or cable system and that there is no segregation of the materials.

Prior to installing the Fluid Thermal Backfill, ensure that the conduits/pipes are suitably anchored so that they do not float.

Remove any shoring or sheeting from the trench no later than one hour after the Fluid Thermal Backfill has been placed so that the material is still in a semi-fluid state.

If freezing temperatures are expected to occur during the placement or curing of the Fluid Thermal Backfill implement any necessary precautions to prevent the material from freezing.

D Measurement

The department will measure Fluid Thermal Backfill by each unit, constructed and accepted in the field. The amount of Fluid Thermal Backfill is estimated to be one cubic yard per crossing. Any additional Fluid Thermal Backfill used will be considered incidental to the contract unit bid price. No extra compensation will be granted for alternate mix design/backfill installation method called for by ATC.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.650	Fluid Thermal Backfill	EACH

Payment is full compensation for all excavation; disposing of excess material; furnishing and placing backfill.

- 72. Concrete Curb & Gutter 18-Inch Type D Special, Item SPV.0090.001;
Concrete Curb & Gutter 24-Inch Type A Special, Item SPV.0090.002;
Concrete Curb & Gutter 24-Inch Type D Special, Item SPV.0090.003;
Concrete Gutter 24-Inch Type D Special, Item SPV.0090.004;
Concrete Curb & Gutter Concrete Curb & Gutter 30-Inch Type D Special, Item
SPV.0090.005.**

A Description

This special provision describes providing special concrete curb and gutter and concrete gutter, shaped to conform to the standards of the City of Madison.

B Materials

Furnish materials, and provide grade for concrete, conforming to standard spec 601.2.

C Construction

Conform to standard spec 601.3.

D Measurement

The department will measure gutter and curb and gutter bid items in this article by the linear foot acceptably completed.

Conform to standard spec 601.4(2), 601.4(3), and 601.4(4).

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.001	Concrete Curb & Gutter 18-Inch Type D Special	LF
SPV.0090.002	Concrete Curb & Gutter 24-Inch Type A Special	LF
SPV.0090.003	Concrete Curb & Gutter 24-Inch Type D Special	LF
SPV.0090.004	Concrete Gutter 24-Inch Type D Special	LF
SPV.0090.005	Concrete Curb & Gutter 30-Inch Type D Special	LF

Conform to standard specs 601.5(2) and 601.5(3).

- 73. Asphaltic Curb Temporary, Item SPV.0090.006.**

A Description

This special provision describes constructing asphaltic curb at the locations shown in the plan and removing it when NB Gammon Road, SB Gammon Road, and turning radii for WB USH 12/14 ramps are shifted to temporary locations.

B Materials

Furnish materials conforming to standard spec 465.2.

C Construction

Perform work in conformance to standard spec 465.3.2. Approximate the shape of the existing concrete curb head matched into.

D Measurement

The department will measure Asphaltic Curb Temporary by the linear foot, acceptably completed, measured along the base of the curb face.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.006	Asphaltic Curb Temporary	LF

Payment is full compensation for providing the asphaltic mixture, including asphaltic material and reclaimed asphaltic materials; for compacting the mixture; for forming the curb; and for removing and disposing of the curb.

74. Construction Staking Bike Path, Item SPV.0090.007.

A Description

Perform work according to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain stakes or marks at a maximum interval of 25 feet and at all other necessary points to properly define the location of the proposed bike path including, grade breaks, inflections points or other critical points as identified on the plans and details. Locate stakes to within 0.02 feet horizontally and establish elevations to within 0.01 feet vertically.

D Measurement

The department will measure Construction Staking Bike Path per the linear foot, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.007	Construction Staking Bike Path	LF

Payment is full compensation for locating and setting all construction stakes; and for relocating and resetting damaged or missing construction stakes.

75. Sign Post, Item SPV.0090.250; Reflective Sign Post, Item SPV.0090.251.

A Description

This special provision describes furnishing and installing new signposts, reflective signposts, and or powder coated signposts for signs. All signposts shall be round tubular steel and installed as shown in the plans.

B Materials

All materials shall conform to the standard specifications for hot rolled carbon sheet steel, commercial quality, ASTM A-570-GR-33 for zinc coated tubing to resist corrosion. The tube shall be 2-inch, Schedule-40 at the length shown on the plans, with threading on the bottom end, as detailed in the plans, and a watertight end cap on the top end.

Reflective signpost shall have two sheets of engineer grade yellow sheeting completely around pipe as shown in the plans

C Construction

Install the signposts at the locations shown on the plans and approved by the engineer. If the finished grade cannot be determined, ask the engineer to identify the final grade. Install all signs in a true vertical position conforming to conform to the latest edition of the Manual on Uniform Traffic Control Devices. Band signs to the sign posts according to the details in the plans. Also, locate all underground utilities prior to placing sign posts. Cut off excess length of post in the field to provide the desired sign clearance

D Measurement

The department will measure (Type) Sign Post by the linear foot, measured from the top of the thread to the end of the sign, rounded up to the nearest foot.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.250	Sign Post	LF
SPV.0090.251	Reflective Sign Post	LF

Payment is full compensation for furnishing, hauling, and installing the posts; threading; treating cut post ends; providing and installing a water tight top end cap; providing hardware and anchors; and for reflective sheeting. Replace all materials damaged during construction with new items at no cost to the department.

76. Marking Line Epoxy 6-Inch, Item SPV.0090.300; Marking Stop Line Epoxy 24-Inch, Item SPV.0090.301.

A Description

This special provision describes providing pavement marking lines.

B Materials

Conform to standard spec 646.2.

C Construction

Conform to standard spec 646.3.

D Measurement

The department will measure Marking Line Epoxy 6-Inch and marking Stop Line Epoxy 24-Inch by the linear foot of line, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.300	Marking Line Epoxy 6-Inch	LF
SPV.0090.301	Marking Stop Line Epoxy 24-Inch	LF

Payment for the marking line and stop line bid items under this article is full compensation for providing the marking.

Conform to standard spec 646.5(3).

77. Electrical Wire Lighting, 14-3 Grounded, Item, SPV.0090.352.

A Description

This special provision describes furnishing and installing electrical wire lighting, 14-3 type UF cable according to standard spec 655 and these specifications.

B Material

Furnish type UF cable with ground including the number and size of conductors as the plans show. Use cable conforming to ANSI/UL 493.

C Construction

Furnish and install one cable to each LED luminaire from base of pole to the luminaire.

D Measurement

The department will measure Electrical Wire Lighting, 14-3 Grounded by the linear foot, acceptably completed, measured from the splice with the system lighting circuit in the pole base to the connection terminals in the luminaire.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.352	Electrical Wire Lighting 14-3 Grounded	LF

Payment is full compensation for furnishing and installing all materials, and for furnishing all equipment and incidentals necessary to complete the work.

78. Furnish & Install 16-Inch Pipe & Fittings, Item SPV.0090.450.

A Description

This work shall consist of furnishing and installing all 16-inch water main as identified on the plan and as required to complete the installation of the proposed water main according to section 704.3 of the *City Standard Specifications* and as hereinafter provided. The scope of work shall include the removal and disposal of any existing water main required to install the proposed water main.

B Materials

Use only restrained-joint pipe that meets all other material requirements under Section 702 of the *City Standard Specifications*. Supply all other required materials according to Section 704.3 of the *City Standard Specifications*, including fittings, accessories, sleeves, clamps, tie rods, plugs, thrust blocking polyethylene encasement, bedding material and temporary blow-off devices. Push-on pipe with restrained-joint gaskets is not an acceptable replacement for restrained-joint pipe.

C Construction

Install main according to section 704.3 of the *City Standard Specifications*. Install restrained joint pipe per manufacturer's instructions.

D Measurement

The department will measure Furnish & Install 16-inch Pipe & Fittings per length of installed pipe to the nearest half foot in length according to section 704.3 of the *City Standard Specifications*.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.450	Furnish and Install 16 Inch Pipe & Fittings	LF

Payment per each shall be full compensation for all work as specified herein.

79. Furnish and Install 2-Inch Foam Board Insulation, Item SPV.0090.451.

A Description

Furnish and install foam board insulation consists of placing rigid foam board in order to insulate water mains and/or water service laterals. This section includes but is not necessarily limited to; all materials, equipment, labor and incidentals necessary to complete the insulation of the pipe and shall be executed in compliance with section 704.13 of the *City Standard Specifications*.

B Materials

Provide foam board insulation complying with section 702.12 of the *City Standard Specifications*.

C Construction

Install foam board insulation at all locations where there is 5 or less feet of cover, where water main crosses below existing or proposed storm sewer pipe, or when specified, shown on the drawings or ordered by the engineer conforming to section 703.13 of the *City Standard Specifications*.

D Measurement

The department will measure foam board by length in feet of pipe insulated along the centerline of the pipe at the surface.

E Payment

The department will pay for foam board at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.451	Furnish and Install 2-Inch Foam Board Insulation	LF

Payment per foot shall be full compensation for all work in insulating the pipe as required. Broken insulation shall not be considered for payment.

- 80. Railing Steel B-13-870, Item SPV.0090.600;
Railing Steel R-13-338, Item SPV.0090.650;
Railing Steel R-13-339, Item SPV.0090.651;
Railing Steel R-13-340, Item SPV.0090.652,
Railing Steel R-13-341, Item SPV.0090.653;
Railing Steel R-13-342, Item SPV.0090.654;
Railing Steel R-13-343, Item SPV.0090.655.**

A Description

This special provision describes fabricating, galvanizing, and installing railing according to standard spec 513, and plan details, as directed by engineer, and as hereinafter provided.

B Materials

Furnish railing conforming to standard spec 513.

C (Vacant)

D Measurement

The department will measure Railing Steel in length by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.600	Railing Steel B-13-870	LF
SPV.0090.650	Railing Steel R-13-338	LF
SPV.0090.651	Railing Steel R-13-339	LF
SPV.0090.652	Railing Steel R-13-340	LF
SPV.0090.653	Railing Steel R-13-341	LF
SPV.0090.654	Railing Steel R-13-342	LF
SPV.0090.655	Railing Steel R-13-343	LF

Payment is full compensation for providing railing; for anchor bolts; and for painting.

- 81. Temporary Bus Stop Access Substages 1B & 1C, Item SPV.0105.002;
Temporary Bus Stop Access Substages 1D & 1E, Item SPV.0105.003;
Temporary Bus Stop Access Substages 2A, 2B, & 2C, Item SPV.0105.004;
Temporary Bus Stop Access Substage 2D, Item SPV.0105.005.**

A Description

This special provision describes temporarily adjusting and maintaining bus stops in the vicinity of two existing bus stops, one along NB Gammon Road and one along SB Gammon Road, to provide continuous access for pedestrians, as shown in the plan for two locations for each bus stop.

Work under this item includes coordination with Metro Transit, City of Madison, as described under the article Traffic.

B Materials

Furnish a hard temporary pedestrian surface of asphalt, plywood, or plate according to standard spec 644.2, and SDD 15D30. Gravel or base course material is not acceptable. Asphalt cold-patch to anchor plate may only be placed outside the area intended for use by pedestrians.

Furnish temporary pedestrian barricade according to standard spec 644.2, and SDD 15D30.

Furnish temporary curb ramps accommodating drainage, according to standard spec 644.2, and SDD 15D30. Instead of the metal fixture shown in detail b of SDD 15D30, curb ramps may be constructed with temporary pedestrian surface asphalt, accommodating drainage with 4-inch diameter polyvinyl chloride drainage pipe conforming to AASHTO M 278. If the asphalt abuts pavement or curb and gutter to remain after construction, furnish a protective layer to allow easy and thorough removal of the asphalt while avoiding damage to the permanent feature. Obtain approval from the engineer for the protective layer material.

C Construction

At a minimum, maintain pedestrian access whenever Metro Transit buses use the bus stops.

Maintain accessible hard temporary pedestrian surface on existing pavement or sidewalk, new pavement or sidewalk, or temporary surface material where shown on the plans or directed by the engineer.

Construct temporary pedestrian surface, barricade, and curb ramps accommodating drainage according to standard spec 644.3, and SDD 15D30. In areas not already paved, form the foundation by excavating at least 3 inches, and level and compact the foundation to ensure stability.

Configure bus pads and approaches according to SDD 15D30, and as shown in the plan.

For all features, meeting the requirements of Americans with Disabilities Act Accessibility Guidelines (ADA).

If curb ramps are temporary pedestrian surface asphalt, place 4-inch PVC drainage pipe in the flow line of the curb and gutter to maintain storm water drainage. If the asphalt curb ramp abuts pavement or curb and gutter to remain after construction, place a protective layer between the two surfaces.

Temporary bus stop signs and poles will be furnished and installed by Metro Transit.

Adjust or move the temporary bus stop if required for utility installation or paving operations.

Remove temporary features once permanent bus pads, pavement, and curb and gutter are in place, and restore the site.

D Measurement

The department will measure Temporary Bus Stop Access as a single lump sum unit for each individual temporary bus stop, acceptably installed, maintained, adjusted or moved when necessary, and removed according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.002	Temporary Bus Stop Access Substages 1B & 1C	LS
SPV.0105.003	Temporary Bus Stop Access Substages 1D & 1E	LS
SPV.0105.004	Temporary Bus Stop Access Substages 2A, 2B, & 2C	LS
SPV.0105.005	Temporary Bus Stop Access Substages 2D	LS

Payment for this item is full compensation for the following, located in the work zone, at crosswalks, at curb ramps and terraces, and up to sidewalk to remain after construction: maintaining temporary pedestrian access to the bus stop; for coordinating with Metro Transit; for temporary pedestrian surface,

temporary pedestrian barricade, and temporary curb ramps accommodating drainage, including preparing the foundation, furnishing, loading, hauling, installing, maintaining, adjusting or moving the bus stop, and removing and disposing.

The following are not included under payment for this item but will instead be measured and paid for separately: temporary pedestrian barrier along sidewalk outside the connection to the bus stop, as shown in the plan; temporary traffic control devices or signs required to maintain vehicular traffic.

**82. Project Dewatering (ID 5992-10-32), Item SPV.0105.006;
Project Dewatering (ID 5992-10-32), Item SPV.0105.007;
Project Dewatering (ID 5992-10-33), Item SPV.0105.008.**

A Description

This section describes dewatering the site during construction or working with the water on-site in a manner that allows the project to be constructed according to the plans and specifications. This item includes removal of any water entering a trench or excavation including but not limited to groundwater, surface water runoff and/or trench dewatering, both clean and potentially contaminated.

Provide and maintain ample means and devices with which to promptly remove all water entering excavations, trenches, and other parts of the work and keep said excavations dry until the structures to be built therein are completed.

Installation of concrete or masonry structures will not be acceptable if placed in water or if water is allowed to rise over masonry or concrete and there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site. At a minimum, pump water into a settling tank, or alternate method approved by the engineer, to settle solids prior to discharge into the storm sewer for clean water and into the designated sanitary sewer for potentially contaminated water.

Potentially contaminated zones of groundwater may be encountered. Conform with the requirements of Section 205 of the Standard Specifications, pertinent parts of the Wisconsin Administrative Code (Department of Natural Resources Environmental Investigation and Remediation of Environmental Contamination, Chapters NR 700-736) and as supplemented herein. Comply with all permit requirements and applicable regulations and monitor the discharge volume of potentially contaminated water generated as necessary to meet the permit requirements. This bid item is intended for all sub-surface utility work for which dewatering may be necessary including sanitary sewer, water main, storm sewer, electrical and traffic signal construction.

B General

Discharge clean water (of any type or from any source) to the storm sewer system. For the purposes of this project suspended solids will not be considered a type of contamination.

Provide all equipment and personnel necessary to conduct dewatering operations as required for the proper completion of the work. Prepare a dewatering plan and submit it to the engineer for review and approval prior to starting dewatering operations. The plan shall include a description of the proposed dewatering methods and maps or drawings indicating the location of the dewatering facilities and points of surface discharge of the water.

The contractor is solely responsible for choosing a method of water control that is compatible with the constraints defined. The contractor is responsible for the adequacy of the water control system and will take all necessary measures to ensure that the water control operation will not endanger or damage any existing adjacent utility or structure.

Design, install and operate the method or methods of water control in such a manner as to provide satisfactory working conditions and to maintain the progress of work. Design the methods and systems so as to avoid settlement or damage to adjacent property according to the applicable legislative statutes and judicial decisions of the State of Wisconsin. All required pumping, drainage and disposal of water will be done without damage to adjacent property or structures, or to the operations of other contractors and without interference with the access rights of public or private parties.

Review and approval of the dewatering plan does not relieve the contractor of the dewatering requirements stated in these specifications. The engineer assumes no liability for the performance or safety of the dewatering system.

Comply with all local ordinances and state statutes for the disposal of water from dewatering operations. Further, it is the contractor's responsibility to contact the Wisconsin Department of Natural Resources Private Water Supply Section prior to construction for dewatering discharge requirements and permits and to comply with all conditions of the Department of Natural Resources. According to Paragraph 144.025(2)(e), Wisconsin Statutes, permits are required for all groundwater control wells that singly or in aggregate produce 70 or more gallons per minute. All wells shall be drilled and sealed according to requirements of the WDNR for installing and abandoning wells. The contact for obtaining well permits is:

Wisconsin Department of Natural Resources
Private Water Supply Section
Box 7921
Madison, Wisconsin 53707
(608) 261-6421
<http://dnr.wi.gov/topic/Wells/dewatering.html>

File a copy of the permit with the owner 48 hours prior to commencement of any dewatering.

Discharge potentially contaminated water from the zones as indicated on the construction plan set or as directed by the engineer to the sanitary sewer. For the purposes of this project suspended solids shall not be considered a type of contamination. Do not discharge contaminated groundwater without prior approval from the Environmental Consultant.

Obtain a *City of Madison Permit to Discharge to the Sanitary Sewer* compliant with all local ordinances and state statutes. The permit will require that the contractor monitor the volume of total water discharged into the sanitary sewer and will determine the necessary reporting frequency. The contact for obtaining this permit is:

Megan Eberhardt
City of Madison Engineering
(608) 266-6432
meberhardt@cityofmadison.com

The City's Environmental Consultant will be responsible for obtaining the necessary approvals from the Madison Metropolitan Sewerage District (MMSD) for disposal of potentially contaminated groundwater. This approval will be issued at the same time as the *Permit to Discharge to the Sanitary Sewer*. Submit a dewatering plan to the City of Madison for approval with the application for *Permit to Discharge to the Sanitary Sewer*.

The contact for the city's Environmental Consultant is:

Brynn Bemis
City of Madison Engineering
(608) 267-1986
bbemis@cityofmadison.com

C Construction

Supplement standard spec 205.3 with the following:

Water shall not be allowed in trenches while pipe is being laid.

No masonry shall be installed in water nor shall water be allowed to rise over masonry or concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

Dewater in such a manner that assures safe working conditions and provides stable trench side slopes and trench bottom for adequate support of the pipe and appurtenances. Dewater sufficiently to minimize or eliminate groundwater pressures below the proposed trench bottom which otherwise may tend to cause boiling or a "quick" condition at the trench bottom. Where silty sands or other impervious soils are encountered at and/or below the pipe zone, the dewatering equipment must be adequate to relieve the groundwater pressure below the impervious soil layer and accomplish sufficient drainage of the impervious soils to provide a stable trench bottom.

Pump water from the dewatering operations directly to a minimum 1,500 gallon holding tank, or alternate method approved by the engineer, to allow for settlement of large solids. Periodically pump clean water from the top of the settling tank into the storm sewer system. Periodically pump potentially contaminated water from the top of the settling tank into the approved sanitary sewer. Provide a meter to measure the volume of potentially contaminated water discharged to the sanitary sewer system.

If free phase petroleum product, such as gasoline floating on the water, is observed during dewatering activities, terminate dewatering activities and notify the engineer and the Environmental Consultant.

Notify the engineer at least three days in advance of any proposed changes to the dewatering plan.

Any flooding or erosion damage caused by dewatering operations is the responsibility of the contractor. If flooding or erosion damage occurs, take immediate steps to eliminate those conditions and to correct any damage. The control of all surface and subsurface water, ice, and snow are considered part of the dewatering. Erosion control shall be exercised at all times, including the placement of silt fences, sedimentation basins and any other devices necessary for proper control.

Dispose of all water removed so as not to endanger public health, private and public property or completed work. Use only electrically driven pumps for dewatering operations. Comply with local requirements for noise control for all equipment utilized as part of the dewatering system (Madison General Ordinance 24.08). Provide sufficient mufflers or other noise reduction devices necessary to minimize the noise of the equipment. If ordered by the engineer, reduce noise to an acceptable level (as determined by the engineer) or supply an alternate system capable of meeting the noise requirements. This applies to any equipment utilized as part of the dewatering system.

Provide stand-by equipment to maintain continuous dewatering in the event of mechanical breakdown to part of the system

The contractor is responsible for removal and/or abandonment of dewatering wells. Removal and/or abandonment shall conform to all state and local regulations.

D Measurement

The department will measure Project Dewatering as a single complete lump sum unit of work, completed according to the contract and accepted.

Measure dewatering of potentially contaminated water and provide this information to the engineer at the frequency determined by the Permit to Discharge to the Sanitary Sewer. This information will not be used as a basis of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.006	Project Dewatering (5992-10-31)	LS
SPV.0105.007	Project Dewatering (5992-10-32)	LS
SPV.0105.008	Project Dewatering (5992-10-33)	LS

Payment is considered full compensation for furnishing all work necessary for pumping, measuring of potentially contaminated water, settling and discharging water, both clean and potentially contaminated; for paying permit fees required; for eliminating and correcting all flooding or erosion damage caused by dewatering operations.

No disposal fees are required by the City of Madison for discharge to the storm sewer system. The City of Madison will pay for any disposal fees required by MMSD for the discharge of water to the sanitary sewer system.

83. Temporary Movable Storm Sewer Trunk Line Drainage Conduit, Connected and Sealed at Ends, Item SPV.0105.100.

A Description

This special provision describes providing movable drainage conduit to enclose temporary drainage between existing and proposed storm sewer trunkline during Substage 1A, at multiple times and locations, when trunk line pipe is covered up, not under construction. This item applies only where proposed and existing storm sewer trunk line overlay each other in plan view, Station 216+90 'NB' to

Station 221+15 'NB', and is limited to the period of time it takes to progressively replace all the trunk line pipe in this area.

B Materials

Furnish conduit adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

Provide drainage conduit having a minimum opening size of 48" diameter.

C Construction

Whenever the storm sewer is covered as the trunk line is being replaced from Station 216+90NB to Station 221+15NB, enclose the drainage between the existing and proposed trunk line pipe with drainage conduit.

D Measurement

The department will measure Temporary Movable Storm Sewer Trunk Line Drainage Conduit, Connected and Sealed at Ends as a single lump sum 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.0105.100	Temporary Movable Storm Sewer Trunk Line Drainage Conduit, Connected and Sealed at Ends	LS

Payment is full compensation for evaluation to determine size and dimensions for the movable conduit; for furnishing, installing, moving, removing, and disposing of the conduit.

Construction staking storm sewer, or removing existing storm sewer pipe, or permanent storm sewer pipe, are not included in this item, but will be measured and paid for separately.

84. Temporarily Drain Existing Inlet to Proposed Inlet, STA 222+60 'NB' to STA 222+25 'NB', Item SPV.0105.101.

A Description

This special provision describes providing temporary drainage from the existing inlet at STA 222+60NB, 38' LT to the proposed inlet 221 at STA 222+25NB, 23' LT.

B Materials

Furnish materials adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

C Construction

Evaluate and take measurements to determine size and dimensions for the connection between the two inlets, prepare the inlets for the connection, and install the connection.

D Measurement

The department will measure Temporarily Drain Existing Inlet to Proposed Inlet STA 222+60NB to STA 222+25NB as a single lump sum 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.0105.101	Temporarily Drain Existing Inlet to Proposed Inlet STA 222+60 'NB' to STA 222+25 'NB'	LS

Payment is full compensation for evaluation and taking measurements to determine size and dimensions for the temporary connection between the inlets; for preparing the inlets for the connection; for furnishing, installing, maintaining, removing, and disposing of the connection.

Construction staking storm sewer, or removing the existing inlet, or installing the proposed inlet, or temporary or permanent inlet covers, or reconstructing the proposed inlet after removal of the temporary connection, are not included in this item, but will be measured and paid for separately.

85. Temporary Inlet Connection to Existing Inlet STA 207+11 'NB', Item SPV.0105.102.

A Description

This special provision describes providing a temporary inlet located in temporary pavement widening to collect and direct drainage to an existing inlet at STA 207+11NB RT that is in a location not able to collect drainage during staged construction.

B Materials

Furnish materials adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

Provide a cover with an opening to drain into the temporary inlet below. Allowable patterns for cover opening are provided in the department's standard detail drawings for inlet and manhole covers.

C Construction

Evaluate and take measurements to determine size and dimensions for the temporary inlet connection, prepare the existing inlet for the temporary connection, and install the connection.

Provide a temporary inlet and cover to withstand traffic loading.

D Measurement

The department will measure Temporary Inlet Connection to Existing Inlet STA 207+11NB as a single lump sum 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.0105.102	Temporary Inlet Connection to Existing Inlet STA 207+11NB	LS

Payment is full compensation for evaluation and taking measurements to determine size and dimensions for the temporary inlet connection; for furnishing, installing, maintaining, removing, and disposing of the connection; for preparing the existing inlet for the connection; for installing the temporary inlet and cover to withstand traffic loading.

Construction staking storm sewer, or temporary cover plate for the existing inlet, or reconstructing the existing inlet after removal of the temporary connection, or salvaging the cover for the existing inlet, are not included in this item, but will be measured and paid for separately.

86. Temporary Inlet Connection to Existing and Proposed Storm Sewer Pipe STA 224+81 'NB', SPV.0105.103.

A Description

This special provision describes providing a temporary inlet at STA 224+81NB LT to temporarily transfer drainage from existing storm sewer to proposed storm sewer during staged construction.

B Materials

Furnish materials adequate to maintain the drainage, seal temporary connections to prevent leakage, and withstand expected structural loading.

Provide a cover with opening to drain into the temporary inlet below. Allowable patterns for cover opening are provided in the department's standard detail drawings for inlet and manhole covers.

C Construction

Evaluate and take measurements to determine size and dimensions for the temporary inlet connection, and install the connection.

Provide a temporary inlet and cover to withstand traffic loading.

D Measurement

The department will measure Temporary Inlet Connection to Existing and Proposed Storm Sewer Pipe STA 224+81NB as a single lump sum 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.0105.103	Temporary Inlet Connection to Existing and Proposed Storm Sewer Pipe STA 224+81NB	LS

Payment is full compensation for evaluation and taking measurements to determine size and dimensions for the temporary inlet connection; for furnishing, installing, maintaining, removing, and disposing of the connection; for installing the inlet and cover to withstand traffic loading.

Construction staking storm sewer, or removing or abandoning existing storm sewer pipe, or permanent storm sewer pipe, or concrete collars for permanent storm sewer pipe, are not included in this item, but will be measured and paid for separately.

87. Storm Sewer Tap, Item SPV.0105.104.

A Description

This special provision describes tapping 12-inch proposed storm sewer pipe into existing 34x53-inch elliptical storm sewer pipe at the location identified in the plan, sealed with concrete.

B Materials

Tuck-point and seal the tap inside and outside using concrete mortar conforming to standard spec 520.2.4.

C Construction

The work under these items shall be according to the provisions of standard spec 611, as shown on the plans and as provided herein.

If water levels fluctuate in the existing pipe above flow line of the proposed storm sewer pipe, comply with standard spec 502.3.5.3.

Leave the tapped pipe flush with the interior wall of the existing pipe.

D Measurement

The department will measure Storm Sewer Tap as a single lump sum unit for the location identified in the plan.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.104	Storm Sewer Tap	LS

Storm Sewer Tap, measured as provided above, will be paid for at the contract unit price each, which price shall be full compensation for tapping the hole; connection of the proposed pipe to the existing pipe; furnishing and placing concrete; and for disposing of removed materials.

88. **Street Light Removal, Item SPV.0105.350;**
Traffic Signal Removal, Item SPV.0105.406;
Overhead Sign Structure Removal (S-13-3063), Item SPV.0105.700;
Overhead Sign Structure Removal (S-13-3064), Item SPV.0105.701;
Overhead Sign Structure Removal (S-13-3065), Item SPV.0105.702;
Overhead Sign Structure Removal (S-13-3066), Item SPV.0105.703;
Overhead Sign Structure Removal (S-13-3067), Item SPV.0105.704;
Overhead Sign Structure Removal (S-13-3068), Item SPV.0105.705;
Overhead Sign Structure Removal (S-13-3069), Item SPV.0105.706.

A Description

This special provision describes removing and salvaging overhead sign structures, base mounted light poles and traffic signal poles, direct bury light poles, transformer bases, signal bases, arms, signal heads, push buttons, pedestrian signals and luminaires.

B (Vacant)

C Construction

Contact Gretchen Aviles Pineiro, (608) 266-4899, at least seven days prior to removing any street lights on the City of Madison lighting system or traffic signals maintained by the City of Madison. Temporary Street lights and Traffic Signals shall be in operation before removing existing. Arrange a meeting to document the existing condition of all street lighting materials that will be affected by construction activities.

The City of Madison will provide the following information at meeting arranged by contractor.

- Identify all items to be disposed or salvaged and delivered to the City of Madison Traffic Engineering
- Identify existing feed-point locations and circuit breaks.

When removing existing street lights and traffic signals, carefully remove and stockpile all equipment at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Protect luminaires and signal heads from moisture. Either reinstall lights as the plans show or deliver to City of Madison Traffic Engineering, 1120 Sayle St. Madison, WI. Contact Ed Smith at (608) 266-4769 prior to delivering salvaged equipment. Properly dispose of any equipment that the city does not salvage.

Replace any equipment damaged in the removal process with equipment that is of greater or equal quality than the damaged piece.

D Measurement

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.350	Street Light Removal	LS
SPV.0105.406	Traffic Signal Removal	LS
SPV.0105.700	Overhead Sign Structure Removal (S-13-3063)	LS
SPV.0105.701	Overhead Sign Structure Removal (S-13-3064)	LS
SPV.0105.702	Overhead Sign Structure Removal (S-13-3065)	LS
SPV.0105.703	Overhead Sign Structure Removal (S-13-3066)	LS
SPV.0105.704	Overhead Sign Structure Removal (S-13-3067)	LS
SPV.0105.705	Overhead Sign Structure Removal (S-13-3068)	LS
SPV.0105.706	Overhead Sign Structure Removal (S-13-3069)	LS

Payment is full compensation for removals, salvaging and disposal as required above.

89. Temporary Lighting, Item SPV.0105.351.

A Description

This special provision describes furnishing, installing, maintaining, relocating and removing wood poles, guy wires, luminaires, arms and aerial cable to maintain 100% of the existing lighting system.

Work for temporary wood poles and guy wires shall be according to standard spec 661.

B Materials

Furnish aerial cable consisting of an assembly of three No. 4 XLP insulated power conductors with an ACSR messenger (grounding) wire. Provide the quantity of parallel cable assemblies necessary to maintain lighting circuits.

Furnish Type 4 wood poles, 35' long.

Protect any cable that extends from grade to 10 feet above grade by a plastic cable guard.

C Construction

Maintain existing, temporary and proposed lighting within the construction limits for the duration of the project. Maintenance includes but is not limited to replacement of burned out lamps, replacement of knocked down poles, relocation of poles due to construction methods or staging and maintaining continuous lighting.

The contractor shall keep streetlights in operation throughout the construction project until new lights are installed and operational as follows:

- A minimum of two lights per intersection (except at the Gammon Rd-Gammon Pl, Gammon Rd-Odana Rd and Gammon Rd-WB Beltline Ramp intersections where a minimum of four lights shall be required).
- A minimum of one midblock lights on each block. The distance between adjacent street lights shall be no greater than 250 feet.
- If new streetlights are installed by the contractor to temporarily replace existing lights, each one shall be LED equivalent to Luminaire Utility LED Type B.

Provide off-hours contact name(s) and phone number(s) for the city and police department for repair purposes and be able to respond within 2 hours to the project site for knockdowns or other work that must be completed in a timely manner. All other maintenance needs shall be completed within 24 hours of notification. It is also the contractor's responsibility to continuously monitor the existing and proposed lighting systems operation.

Coordinate work with the city's forces. Existing lighting contains 120 volt circuits. New lighting may need to be temporarily wired from existing circuits to maintain street lighting. Arrange for all required electrical service modifications with the utility. Pay all utility company installation costs for modifications required to maintain the Temporary Lighting. The City of Madison will pay for energy costs.

D Measurement

The department will measure Temporary Lighting as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.351	Temporary Lighting	LS

Payment is full compensation for furnishing, installing, relocating and removing wood poles, aerial cable, luminaires, arms, guy wires, maintaining lighting units, replacement of burned out lamps; replacement of knockdowns, and for furnishing and installing splice connectors.

- 90. Temporary Vehicle Detection (Gammon Rd – Gammon PI), Item SPV.0105.400;
Temporary Vehicle Detection (Gammon Rd – Odana Rd), SPV.0105.401;
Temporary Vehicle Detection (Gammon Rd – WB Beltline Ramp), SPV.0105.402.**

A Description

This special provision describes furnishing, installing and maintaining vehicle detection systems at the intersections of Gammon Rd and Gammon PI, Gammon Rd and Odana Rd, and Gammon Rd and WB Beltline Ramp in conjunction with temporary traffic signals as shown in the plans. The desired vehicle detection zones and their operational parameters are show in the plans.

B Materials

Provide all necessary equipment for the approved method of temporary vehicle detection.

Select, with prior approval of the engineer and City of Madison, the vehicle detection technology best suited for the site conditions and the anticipated construction work zones and activities. The engineer reserves the right to request a demonstration of any or all temporary vehicle detection technologies prior to said approval. Vehicle detection technologies considered shall include; but are not limited to, temporary inductive loops, microwave detection, or video detection. Detection technology shall provide for true presence detection.

C Construction

Damage to new pavement for temporary detection loops will not be allowed. Any pavement damaged during installation shall be replaced at the contractor's expense.

Provide immediate response, 24-hour/7-days per week, to maintain any aspect of the temporary vehicle detection that is defective, completing repairs or adjustments the same day as notification.

Adjust, relocate, add, or remove temporary vehicle detection equipment for each traffic control stage or sub stage as shown in the plans, request by the engineer, or as modified by the contractor's operations to maintain the required traffic and complete the proposed work.

D Measurement

The department will measure Temporary Vehicle Detection (Intersection), demonstrated, furnished, installed and completely operational, as a single unit of work per intersection, acceptably completed.

If repairs or adjustments to restore vehicle detection to full function are not made the same day as notification, the associated pay item shall be reduced by the following amounts:

- First instance: No deduct if repaired within 24 hours.
- Each subsequent instance: 5% deduct for each day or partial day of non- compliance.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.400	Temporary Vehicle Detection (Gammon Rd – Gammon PI)	LS
SPV.0105.401	Temporary Vehicle Detection (Gammon Rd – Odana Rd)	LS
SPV.0105.402	Temporary Vehicle Detection (Gammon Rd – WB Beltline Ramp)	LS

Payment is full compensation for demonstrating and selecting the vehicle detector technology, furnishing, installing and adjusting or moving the equipment, including all required materials, tools and supplies; for furnishing all labor; for clean-up and waste disposal; and for furnishing all incidentals necessary to complete the contract work.

- 91. Temporary Traffic Signals (Gammon Rd – Gammon PI), Item SPV.0105.403;
Temporary Traffic Signals (Gammon Rd – Odana Rd), Item SPV.0105.404;
Temporary Traffic Signals (Gammon Rd – WB Beltline Ramp), Item SPV.0105.405.**

A Description

This special provision describes installing temporary traffic signals for intersections, using overhead electrical wiring to temporary traffic signal poles and temporary supports, according to standard spec 661 and as amended herein.

The City of Madison traffic signal personnel will perform the traffic signal inspection.

B Materials

Furnish and use materials that are according to standard spec 661.2 and as amended herein.

Furnish and install optical signal preempt for the temporary signals. The following approach directions each need to be detected and brought back individually to the signal control cabinet: northbound and southbound at Gammon Rd and Gammon Pl, and Gammon Rd and WB Beltline Ramp intersections, and westbound at Gammon Rd and Odana Rd intersection.

B.1 Luminaires

Furnish and install luminaire arms and luminaries conforming to the pertinent requirements of standard spec 657 and 659. The luminaries shall be LED and meet the requirements of Luminaires Utility LED Type B and shall be furnished with photo electric cells to turn the luminaire on and off.

B.2 Signal Poles and Signal Faces

Furnish new or used poles and traffic signal standards for use in temporary signals conforming to the pertinent requirements of standard spec 657 and 661. Furnish signal faces according to standard spec 661.2.2.2.

B.3 Pedestrian Push Buttons

Furnish pedestrian push buttons conforming to standard spec 658.

B.4 Signal Cabinet

Cabinet shall have room for City of Madison personal to install cellular Ethernet communication equipment and video camera equipment. City of Madison personal shall be provided access for purposes of installing and maintaining the Ethernet and video camera equipment as needed. Furnish new or equivalent to new materials as specified in standard spec 661.2 and as provided herein.

B.5 Controller

Furnish a new or equivalent to new Econolite ASC3-2100 controller with Ethernet port for each Econolite Controller. The controller shall be compatible with the City of Madison closed loop system (CLS).

B.6 Conflict Monitor

Furnish a new or equivalent to new NEMA+ 12-Channel Signal Conflict Monitor, with LCD display, and an Ejector Tab card release on side of card.

Provide keys to the temporary signal control cabinet to the City of Madison in addition to other required keys according to standard spec 661.2.1.

C Construction

C.1 General

The City of Madison will load the timing programs into the controller.

Do not use new permanent signal conduit for temporary signal wiring. Provide horizontal and vertical clearance between sidewalks and guy wires.

Arrange for all required electrical service modifications with the utility. Pay all utility company installation costs for modifications required to maintain the Temporary Traffic Signal. The City of Madison will pay for energy costs.

Locate and avoid all underground and aboveground utilities and structures. Install temporary supports as required to avoid conflicts with proposed curb and gutter, sidewalk, and traffic signal poles. The engineer will approve the final location of wood poles prior to installation.

Use of self-supporting poles will likely be required due to limited right-of-way limitations and depending on contractor operations.

Maintain temporary signals throughout the construction of the project, until such time that the new signals are operational and have been accepted by and turned over to the city.

C.2 Existing City Equipment

Contractor will remove all existing signal equipment after temporary signals are in place and operational. When removing existing street lights and traffic signals, carefully remove and stockpile all equipment at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Protect luminaires, signal heads and pedestrian signals from moisture. If it was determined to salvage equipment, deliver to City of Madison Traffic Engineering, 1120 Sayle St, Madison, WI. Contact Ed Smith at (608) 266-4769 prior to delivering salvaged equipment. Properly dispose of any equipment that the city does not salvage.

C.3 Signal Heads

Install signal heads for the same vehicle travel direction at a minimum of 11 feet from each other. Provide pedestrian signals for each crosswalk open to pedestrians and locate them so that they are clearly visible to pedestrians prior to and during their crossing. Move signal heads as necessary or as directed by the engineer.

C.4 Pedestrian Push Buttons

Install pedestrian push buttons for pedestrian crossings. Mount push buttons so that they are wheelchair accessible from temporary crosswalks. Install pedestrian push buttons as required by the MUTCD chapter 4.

C.5 Luminaires

Orient luminaires as shown on the plans to illuminate both traffic lanes and sidewalks on both sides of the respective street.

C.6 Cabinet

Maintain existing cabinet at Gammon Road and Westbound Beltline ramp intersection during construction.

Provide a representative of the supplier of their cabinet on site at the time of the turn on. Install equipment in the cabinet as follows for Gammon Road and Gammon Place, and Gammon Road and Odana Road intersections:

C.6.1 Controller

Install the controller and ensure that it is operational as part of the City of Madison closed loop system.

C.7 Maintenance

When a signal installation is not in operation, hood, turn, or take down the signal head(s) to clearly indicate that the signal is not in operation. (See MUTCD 4D-1).

C.8 Pre-emption Hardware, Cable, and Equipment

Install detector cards, sensors, cables, and all required ancillary equipment, appurtenances and mounting hardware at the temporary signals to provide a fully function pre-emption system. Arrange testing of the pre-emption system with Mike Benzschawel, (608) 266-9031, before turn-on of the temporary signal.

C.9 Contractor Qualifications

Demonstrate the ability to operate all required traffic signal equipment listed in this special provision for the engineer and the City of Madison prior to starting work.

Provide proof of the ability to obtain all required traffic signal equipment listed in this special provision to the engineer and the City of Madison prior to starting work.

D Measurement

The department will measure Temporary Traffic Signals (Location), completed according to the contract and accepted, as a single complete lump sum unit of work, and according to standard spec 661.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.403	Temporary Traffic Signals Gammon Rd – Gammon Pl	LS
SPV.0105.404	Temporary Traffic Signals Gammon Rd – Odana Rd	LS
SPV.0105.405	Temporary Traffic Signals Gammon Rd – WB Beltline Ramp	LS

Payment for the Temporary Traffic Signals bid item is full compensation for providing, operating, maintaining, and repairing the complete temporary installation; and for removal of the temporary installation. Payment also includes the following:

1. Providing replacement equipment.
2. All utility charges for installation and disconnection. The City of Madison will pay for energy costs.
3. The cost of delivery and pick-up of the cabinet assemblies for department testing.

92. Optical Signal Preempt, Item SPV.0105.407.

A Description

This special provision describes furnishing and installing optical signal preempt equipment for the 3 signalized intersections. The acceptability of alternate equipment rests solely with the City of Madison Traffic Engineering Division.

B Materials

Provide the following material:

- Two channel discriminator for each of three intersections
- Optical detectors, eight total.
- Card rack for each intersection, three total.
- Detector cable as necessary.
- Cables and auxiliary equipment as necessary for a complete operating system.

C Construction

Install detectors on the top horizontal member of monotube or trombone arms, between the first and second traffic signal head, and as directed by Madison Traffic Engineering, Mike Benzschawel, (608) 266-9031.

The detectors will generally be on the far side of the intersection, and aimed at approaching traffic, as further directed by Madison Traffic Engineering staff. Install detector cable from the detector to the control cabinet at each intersection, using the shortest path.

All installation methods to be consistent with the manufacturer's instructions. Card rack and discriminator installation, as well as cabinet connections, will be made by City of Madison Traffic Engineering staff.

D Measurement

The department will measure Optical Signal Preempt as a single lump sum unit of work for optical signal preempt, 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.0105.407	Optical Signal Preempt	LS

Payment is full compensation furnishing and installing detectors and cable; for furnishing and delivering discriminators, card racks, cables and miscellaneous materials to the city Traffic Engineering Field Office, 1120 Sayle Street.

93. Construction Staking Water Main, Item SPV.0105.450.

A Description

Perform the work according to the applicable provisions of standard spec 650.3.2 and 650.3.6.

B (Vacant)

C (Vacant)**D Measurement**

The department will measure Construction Staking Water Main by the lump sum, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.450	Construction Staking Water Main	LS

Payment for Construction Staking Water Main is full compensation for locating and setting all construction stakes; for relocating and resetting damaged or missing construction stakes and all other incidentals required to perform the work.

94. Construction Staking Sanitary Sewer, Item SPV.0105.500.**A Description**

Perform work according to the applicable provisions of standard spec 650.

B (Vacant)**C Construction**

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish location and grade of sanitary sewer structures according to the plans and details for sanitary sewer structures. Set and maintain construction stakes to establish location and grade of sanitary sewer main. Provide stakes that establish the horizontal and grade elevation of sanitary main at intervals of 25 feet for a minimum of 100 feet from each structure and at intervals of 50 feet thereafter. Determine offsets in conjunction with contractor requirements. Verify the invert elevations of existing structures which are to remain and be connected into. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional intermittent stakes as necessary to provide staking information at critical areas such as utility, driveway, roadway, and structure crossings.

D Measurement

The department will measure Construction Staking Sanitary Sewer (Project 5992-09-12) as a single complete lump sum unit of work, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.500	Construction Staking for Sanitary Sewer	LS

Payment is full compensation for locating and setting all construction stakes; and for relocating and resetting damaged or missing construction stakes.

95. Colored Crosswalk Green, Item SPV.0165.001.**A Description**

This work consists of furnishing and applying a high friction surfacing system according to this section and in conformity with the lines and details shown on the plans. The locations on the plans are noted as "Colored Bike Box." The field installed system consists of a specially formulated two-component epoxy binder that is applied to the roadway surface and then covered with a durable aggregate to provide high friction resistance and the desired color. Colored Bike Box will be bike lane green in color.

The high friction surfacing system shall comply with chromaticity requirements according to MUTCD Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes.

The manufacturer's technical representative shall come to the construction site to train department and contractor personnel prior to surface treatment and shall be available during application as necessary.

B Materials

General: Use a two part cold applied modified exothermic epoxy resin binder treatment containing epoxy binder capable of retaining an aggregate topping under vehicular traffic conditions.

Epoxy Binder: Use a 100% solids, two part, self-leveling, epoxy binder consisting of a thermosetting modified epoxy compound, which holds the aggregate firmly in position. The epoxy binder shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	2000	ASTM D 638
Hardness, Shore D, minimum	70	ASTM D 2240
Compressive Strength, psi, minimum 1	600	ASTM D 695
Gel Time, minutes, minimum	10	ASTM D 2471
Cure Rate, hours, maximum	3	Film@ 75°F
Water Absorption @ 24 hours, %, max.	0.25	ASTM D 570

Aggregate: The aggregate shall be high friction crushed Bauxite, Granite, or gravel. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Aggregate Abrasion Value, maximum	20	LA Abrasion
Aggregate Grading,		
No 6 Sieve Size, minimum passing, %	95	
No 16 Sieve Size, maximum passing, %	5	
Aggregate Color	Green	

Two part epoxy materials, which are not exothermic in curing and do not meet the viscosity requirements, will not be allowed. The contractor shall provide an independent laboratory report which documents that the epoxy binder meets the requirements of this section.

Certification: Finished surface shall have a minimum 60 FN40R according to ASTM E274) of aggregate bonded to a vehicular bearing surface using the modified epoxy binder.

C Construction

General: Do not apply the two part modified epoxy binder on a wet surface, when the ambient and/or surface temperature is below 45°F or above 100°F, or when the anticipated weather conditions would prevent the proper application of the surface treatment, as determined by the manufacturer's representative and the engineer. All components shall have a temperature greater than 45°F immediately before mixing and placement.

Preparation: Prepare surfaces so that they are clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces. The manufacturer's representative will determine if all surfaces have been adequately cleaned.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the engineer. Remove by grinding any pavement markings that conflict with the surface application and thoroughly sweep or vacuum the surface clean prior to the epoxy binder application.

Pre-treat joints and cracks greater than 1/4 inches in width and depth with the mixed epoxy specified herein or by using an alternative procedure proposed by the manufacturer and agreed upon by the engineer. Proceed with the epoxy binder and aggregate topping installation once the epoxy, in the pre-treated areas, has gelled or once the alternative procedure has been accomplished.

For applications on new pavements, install the high friction epoxy binder and aggregate topping a minimum of 20 days after the placement of the underlying and adjacent pavement.

Mixing and Application of Epoxy Binder and Aggregate Wearing Course: Utilize one of the following methods for the application of the epoxy binder and aggregate wearing course, as applicable.

- **Hand mixing and application:** Proportion the two-part modified epoxy base binder components, Part A and Part B, to the correct ratio, as recommended by the manufacturer, and mix using a low speed, high torque drill fitted with a helical stirrer. Hand-apply the mixed components onto a prepared pavement surface at a thickness of the mixed epoxy shall be 50 to 100 mils. Uniformly spread hand-applied base binder onto the substrate surface by means of a serrated edge squeegee. Immediately, spread the high friction surfacing aggregate onto the two part modified epoxy base binder.
- **Mechanical mixing and application:** Apply the two part modified epoxy base binder by a truck mounted application machine onto the pavement section to be treated in varying widths at a uniform application thickness. Proceed with operations in such a manner that will not allow the epoxy base binder material to separate in the mixing lines, cure, dry, or otherwise impair retention bonding of the high friction surfacing aggregate. Apply the mixed components mechanically onto the prepared pavement surface with a uniform thickness of 50 to 100 mils. Immediately, mechanically apply the high friction surfacing aggregate in a uniform, continuous manner.

For either of the above methods, do not use vibratory or impact type compaction on the aggregate after placement. Use only lightweight rollers to seat the aggregate topping without crushing the aggregate. Complete coverage of the "wet" epoxy binder with aggregate is necessary to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed.

Curing: Allow the high friction aggregate topped epoxy binder to cure according to manufacturer recommendations. Protect treated surfaces from traffic and environmental effects until the area has cured.

Removal of Excess Aggregate: Remove the excess aggregate by hand brooms, mechanical sweeping, or vacuum sweeping before opening to traffic. Excess aggregate can be reused on the following day's installation, provided the aggregate is clean, uncontaminated, and dry.

The engineer may require additional mechanical or vacuum sweeping as necessary after the system fully cures and the treated surface is open to traffic.

PERFORMANCE REQUIREMENTS

Raveling and Delamination: Remove and replace high friction surface treatment that ravels, delaminates, or wears off within 90 days after placement, unless approved to remain in place by the engineer. The limits of removal and replacement shall be approved by the engineer. The replaced high friction surface treatment shall meet the requirements of this sub-article.

Warranty: The two-part modified epoxy material shall be installed per plans and specification. The engineer will notify the contractor within 48 hours of installation regarding any of the two-part modified epoxy material that is installed not to specification or to the satisfaction of the engineer. Non-conforming two part modified epoxy material shall be removed at no charge to the city and replaced with conforming product.

The warranty period in reference to the following points is to be 1 year from date of installation. Warranty of the following items shall be submitted in writing by the contractor or his installer prior to the pre-construction meeting.

- The two-part modified epoxy material will maintain its original color in the surface area throughout the 'warranty period' with the exception of natural weathering, tire and dirt deposits and abnormal markings applied after installation.
- Friction will achieve a minimum BPN of 60 according to ASTM E-303

- The two-part modified epoxy material will maintain its skid resistance qualities in 100% of its surface area to never fall below a BPN of 60 during the 'warranty period'.
- With the exception of structural cracking or excessive movement of the surface beneath the two-part modified epoxy material will not be subject to excessive cracking in its surface.

D Measurement

The department will measure Crosswalk Special by the square yard, acceptably completed. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.001	Colored Crosswalk Green	SF

Payment is full compensation for furnishing and installing all materials including any re-application or repair required under the Performance Requirements and Warranty as provided herein.

96. Wall Modular Block Gravity R-13-0341, Item SPV.0165.650; Wall Modular Block Gravity R-13-0343, Item SPV.0165.651.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Modular Block Gravity Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11-inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8

½ inch x 11-inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls shall be designed for a minimum live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. Internal stability shall also be considered at each block level. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The width of the modular block (front face to back face) shall be included in the design computations and shown on the wall shop drawings. Blocks must have a minimum width of 8 inches. Block widths may vary among courses but shall consist of only a single block. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Wall facing units shall be designed according to AASHTO LRFD 11.10.2.3.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on concrete leveling pads. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Concrete leveling pads shall be as wide as the proposed blocks plus 6 inches, with 6 inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec. 501.2.1 or may substitute for portland cement at the time of batching conforming to standard spec 501.2.6 for fly, 501.2.7 for slag, or 501.2.8 for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured according to ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02" and longer than 25% of the nominal height of the unit, chips larger than 1", have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either;

- Solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material.
- A formed cast-in-place concrete cap. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Block dimensions may vary no more than $\pm 1/8$ inch from the standard values published by the manufacturer. Blocks must have a minimum width (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1 3/4 inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

For concrete leveling pad, use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

B.3.2 Material Testing

Provide independent quality verification testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140	5000 min.	4000 min.
Air Content (%)	AASHTO T152	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140	6 max. ^[3]	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262 ^[1]	1.0 max. ^{[2][3]} 1.5 max. ^{[2][3]}	N/A

^[1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.

^[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

^[3] The independent testing laboratory shall control and conduct all sampling and testing. Prior to sampling, the manufacturer's representative shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project. If a random sample of five blocks of any lot tested by the department fails to meet any of the above testing requirements, the entire lot will be considered non-conforming.

The contractor and fabricator shall coordinate with the independent testing agency to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number and lot size

Testing of project materials shall be completed not more than 18 months prior to delivery. Independent testing frequency shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day's production for wet-cast blocks. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate Size No. 1 as given in standard spec 501.2.5.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

A layer of Geotextile Type "DF" (Schedule B) shall be placed vertically between the backfill and the Type A backfill. The geotextile shall extend from the top of the leveling pad to 6 inches below the surface of the retained soil. The geotextile shall then wrap across the top of the Type A backfill to the back of block wall facing.

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Granular Backfill Grade 1 as contained in standard spec 209.2.2. The contractor may substitute Type A Backfill for Granular Backfill Grade 1.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the wall and the leveling pad shall be according to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

C.2 Compaction

Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks.

C.3 Wall Components

Erect wall facing units and other associated elements according to the wall manufacturer's construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer's directions.

C.4 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Modular Block Gravity by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.0650	Wall Modular Block Gravity R-13-0341	SF
SPV.0165.0651	Wall Modular Block Gravity R-13-0343	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for parapets, traffic barriers, railings, and other items above the wall cap or coping.

- 97. Wall Modular Block Mechanically Stabilized Earth R-13-0338, Item SPV.0165.652;
Wall Modular Block Mechanically Stabilized Earth R-13-0339, Item SPV.0165.653;
Wall Modular Block Mechanically Stabilized Earth R-13-0340, Item SPV.0165.654;
Wall Modular Block Mechanically Stabilized Earth R-13-042, Item SPV.0165.655.**

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

This special provision describes the quality management program (QMP) for Mechanically Stabilized Earth (MSE) walls. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process that are related to the construction of the MSE wall, which meets all the requirements of this provision.

This special provision describes contractor quality control (QC) sampling and testing for backfill density testing, documenting those results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.

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

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Modular Block Mechanically Stabilized Earth Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form [DT2329](#) with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11-inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11-inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls parallel to supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Walls that do not carry highway traffic shall be designed for a live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as stated on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and wall facing-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Wall facing units shall be designed according to AASHTO LRFD 11.10.2.3.

The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height, or as shown on the plan. In no case shall this length be less than 6.0 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers shall be connected to facings. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be two times the block width (front face to back face) or 32 inches, whichever is less. The first (bottom) layer of reinforcement shall be placed no further than 12 inches above the top of the leveling pad or the height of the block, but at least one block height above the leveling pad. The last (top) layer of soil reinforcement shall be no further than 21 inches below the top of the uppermost block.

All soil reinforcement required for the reinforced soil zone shall be connected to the wall facing.

Soil reinforcement shall be fabricated or designed to avoid piling, drainage structures or other obstacles in the fill without field modifications. Unless approved by the Bureau of Structures cutting or altering of the basic structural section of either the strip or grid at the site is prohibited, a minimum clearance of 3" shall be maintained between any obstruction and reinforcement, and splicing reinforcement is not allowed.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a concrete leveling pad. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Concrete leveling pads shall be as wide as the proposed blocks plus 6 inches, with 6 inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec. 501.2.1 or may substitute for portland cement at the time of batching conforming to standard spec 501.2.6 for fly, 501.2.7 for slag, or 501.2.8 for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured according to ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02" and longer than 25% of the nominal height of the unit, chips larger than 1", have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either;

Solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material.

A formed cast-in-place concrete cap. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Block dimensions may vary no more than $\pm 1/8$ inch from the standard values published by the manufacturer. Blocks must have a minimum width (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1 3/4 inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

For concrete leveling pad, use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

B.3.2 Material Testing

Provide independent quality verification testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140	5000 min.	4000 min.
Air Content (%)	AASHTO T152	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140	6 max. ^[3]	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262 ^[1]	1.0 max. ^{[2][3]} 1.5 max. ^{[2][3]}	N/A

^[1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.

^[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

^[3] The independent testing laboratory shall control and conduct all sampling and testing. Prior to sampling, the manufacturer's representative shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project. If a random sample of five blocks of any lot tested by the department fails to meet any of the above testing requirements, the entire lot will be considered non-conforming.

The contractor and fabricator shall coordinate with the independent testing agency to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast).
- Name and location of testing facility.
- Name of sampling technician.
- Lot number and lot size.

Testing of project materials shall be completed not more than 18 months prior to delivery. Independent testing frequency shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day's production for wet-cast blocks. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate No. 1 as given in standard spec 501.2.5.4.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

Wall Backfill, Type B, shall be placed in a zone extending horizontally from 1 foot behind the back face of the wall to 1 foot beyond the end of the reinforcement and extending vertically from the top of the leveling pad to a minimum of 3 inches above the final reinforcement layer.

Use natural sand or a mixture of sand with gravel, crushed gravel or crushed stone. Do not use foundry sand, bottom ash, blast furnace slag, crushed/recycled concrete, crushed/milled asphaltic concrete or other potentially corrosive material.

Provide material conforming to the following gradation requirements as per AASHTO T27.

Sieve Size	% by Weight Passing
1 inch	100
No. 40	0 - 60
No. 200	0 - 15

The material shall have a liquid limit not greater than 25, as per AASHTO T89, and a plasticity index not greater than 6, as per AASHTO T90. Provide the percent by weight, passing the #4 sieve.

In addition, backfill material Type A and Type B shall meet the following requirements.

Test	Method	Value
pH	AASHTO T-289	4.5-9.0
Sulfate content ^[1]	AASHTO T-290	200 ppm max.
Chloride content ^[1]	AASHTO T-291	100 ppm max.
Electrical Resistivity	AASHTO T-288	3000 ohm-cm min.
Organic Content ^[1]	AASHTO T-267	1.0% max.
Angle of Internal Friction	AASHTO T-236 ^[2]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2)

^[1] Requirement does not apply to walls with non-metallic reinforcement.

^[2] If the amount of P-4 material is greater than 60%, use AASHTO 236 with a standard-size shear box. Test results of this method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

If the amount of P-4 material is less than or equal to 60%, two options are available to determine the angle of internal friction. The first method is to perform a fractured faces count, per ASTM D5821, on the R-4 material. If more than 90% of the material is fractured on one face and more than 50% is fractured on two faces, the material meets the specifications and the angle of internal friction can be assumed to be 30 degrees. The second method allows testing all P-1" material, as per AASHTO T-236, with a large shear box. Test results of this second method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

Prior to placement of the backfill, obtain and furnish to the engineer a certified report of test results that the backfill material complies with the requirements of this specification. Specify the method used to determine the angle of internal friction. This certified report of test shall be less than 6 months old. Tests will be performed by a certified independent laboratory. In addition, when backfill characteristics and/or sources change, provide a certified report of tests for the new backfill material. Additional certified report of tests are also required. These additional backfill tests may be completed at the time of material production or material placement, with concurrence of the engineer. If this additional testing is completed at the time of material production, complete testing for every 2000 cubic yards of backfill or portion thereof. If this additional testing is completed at the time of material placement, complete testing for every 2000 cubic yards of backfill, or portion thereof, used per wall. For the additional required testing for every 2000 cubic yards of backfill placement, if the characteristic of the backfill and/or the source has not changed then Angle of Internal Friction tests are not included in the additional required testing. All certified reports of test results shall be less than 6 months old and performed by a certified independent laboratory.

B.3.4 Soil Reinforcement

B.3.4.1 Geogrids

Geogrid supplied as reinforcing members shall be manufactured from long chain polymers limited to polypropylene, high-density polyethylene, polyaramid, and polyester. Geogrids shall form a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The minimum grid aperture shall be 0.5 inch. The geogrid shall maintain dimension stability during handling, placing, and installation. The geogrid shall be insect, rodent, mildew, and rot resistant. The geogrid shall be furnished in a protective wrapping that shall prevent exposure to ultraviolet radiation and damage from shipping or handling. The geogrid shall be kept dry until installed. Each roll shall be clearly marked to identify the material contained.

The wall supplier shall provide the nominal long-term design strength (T_{al}) and nominal long-term connection strength, T_{alc} as discussed below.

Nominal Long-Term Design Strength (T_{al})

The wall supplier shall supply the nominal long-term design strength (T_{al}) used in the design for each reinforcement layer and shall be determined by dividing the Ultimate Tensile Strength (T_{ult}) by the factors RF_{ID} , RF_{CR} , RF_D .

Hence,

$$= \frac{T_{ult}}{RF_{ID} RF_{CR} RF_D}$$

where:

T_{ult} = Ultimate tensile strength of the reinforcement determined from wide width tensile tests (ASTM D6637) for geogrids based on the minimum average roll value (MARV) for the product.

RF_{ID} = Strength reduction factor to account for installation damage to the reinforcement.
In no case shall RF_{ID} be less than 1.1.

RF_{CR} = Strength reduction factor to prevent long-term creep rupture of the reinforcement. In no case shall RF_{CR} be less than 1.2.

RF_D = Strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation. In no case shall RF_D be less than 1.1.

Values for RF_{ID} , RF_{CR} , and RF_D shall be determined from product specific test results. Guidelines for determining RF_{ID} , RF_{CR} , and RF_D from product specific data are provided in FHWA Publication No. FHWA-NHI-10-024 and FHWA-NHI-10-025 "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes".

Nominal Long-term Connection Strength T_{ac}

The nominal long term connection strength, T_{ac} , shall be based on laboratory geogrid connection tests between wall facing and geogrids. T_{ac} shall be as given below

$$T_{ac} = \frac{T_{ult}}{CR_{cr} RF_D}$$

where:

T_{ac} = Nominal long-term reinforcement facing connection strength per unit reinforcement width at a specified confining pressure.

T_{ult} = Ultimate tensile strength of the reinforcement for geogrids defined as the minimum average roll value (MARV) for the product.

CR_{cr} = Long term connection strength reduction factor to account for reduced ultimate strength resulting from connection.

RF_D = Strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation.

T_{ac} shall be developed from the tests conducted by an independent laboratory on the same facing blocks and geogrids as proposed for the wall and shall cover a range of overburden pressures comparable to those anticipated in the proposed wall. The connection strength reduction factor CR_{cr} shall be determined according to long-term connection test as described in Appendix B of FHWA Publication No. FHWA-NHI 10-025 "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes". CR_{cr} may also be obtained from the short term connection test meeting the requirements of NCMA test method SRWU-1 in Simac et al 1993 or ASTM D4884.

The contractor shall provide a manufacturer's certificate that the T_{ult} (MARV) of the supplied geogrid has been determined according to ASTM D4595 or ASTM D6637 as appropriate. Contractor shall also provide block to block and block to reinforcement connection test reports prepared and certified by an independent laboratory. Also provide calculations according to AASHTO LRFD, and using the results of laboratory tests, that the block-geogrid connections shall be capable of resisting 100% of the maximum tension load in the soil reinforcements at any level within the wall, for the design life of the wall system.

B.3.4.2 Galvanized Metal Reinforcement

In lieu of polymeric geogrid earth reinforcement, galvanized metal reinforcement may be used. Design and materials shall be according to AASHTO LRFD 11.10.6.4.2. The design life of steel soil reinforcements shall also comply with AASHTO LRFD. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the MSE wall and the leveling pad shall be according to standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the depth of the leveling pad unless shown or noted otherwise on the plan. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units, soil reinforcement, or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. Place and compact material beyond the reinforced soil zone to allow for proper compaction of material within the reinforced zone. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

C.2 Compaction

Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Compact all backfill Type B as specified in standard spec 207.3.6. Compact the backfill Type B to 95.0% of maximum dry density as determined by AASHTO T-99 (modified to compute densities to the nearest 0.1 pcf).

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks. Do not use sheepsfoot or padfoot rollers within the reinforced soil zone.

A minimum of 6 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

C.3 Wall Components

C.3.1 General

Erect wall facing units and other associated elements according to the wall manufacturer's construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer's directions.

The MSE reinforcement shall lay horizontally on the top of the most recently placed and compacted layer of MSE backfill. Bending of MSE reinforcement that result in a kink in the reinforcement shall not be allowed. If skewing of the reinforcement is required due to obstructions in the reinforced fill, the maximum skew angle shall not exceed 15 degrees from the normal position unless a greater angle is shown on the plans. The adequacy of the skewed reinforcement in such a case shall be addressed by supporting calculations.

C.3.2 Soil Reinforcement

C.3.2.1 Geogrid Layers

Place soil reinforcement at the positions and to the lengths as indicated on the accepted shop drawings. Take care that backfill placement over the positioned soil reinforcement elements does not cause damage or misalignment of these elements. Correct any such damage or misalignment as directed by the engineer. Do not operate wheeled or tracked equipment directly on the soil reinforcement. A minimum cover of 6 inches is required before such operation is allowed.

Place and anchor geogrid material between wall unit layers in the same manner as used to determine the Geogrid Block-to-Connection Strength. Place the grid material so that the machine direction of the grid is perpendicular to the wall face. Each grid layer shall be continuous throughout the lengths indicated on the plans. Join grid strips with straps, rings, hooks or other mechanical devices to prevent movement during backfilling operations. Prior to placing backfill on the grid, pull the grid taut and hold in position with pins, stakes or other methods approved by the engineer.

C.3.2.2 Steel Layers

Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C.4 Quality Management Program

C.4.1 Quality Control Plan

Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not perform MSE wall construction work before the engineer reviews and accepts the plan. Construct the project as the plan provides.

Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:

An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.

The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.

A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.

Descriptions of stockpiling and hauling methods.

An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

Location of the QC laboratory, retained sample storage, and other documentation.

A summary of the locations and calculated quantities to be tested under this provision.

A proposed sequencing plan of wall construction operations and random test locations.

C.4.2 Quality Control Personnel

Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at each grading site during all wall backfill placement, compaction, and nuclear testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

If an Assistant Certified Technician (ACT) is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician Ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

C.4.3 Equipment

Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.

Furnish nuclear gauges from the department's approved product list at:

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

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to ASTM D6938 and CMM 8-15 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Perform each test for 4 minutes of nuclear gauge count time.

Split each Proctor sample and identify so as to provide comparison with the department's test results. Unless the engineer directs otherwise, retain the QC split samples for 14 calendar days and promptly deliver the department's split samples to the department.

C.4.4 Documentation

Document all observations, inspection records, and process adjustments daily. Submit test results to the department's project materials coordinator on the same day they become available.

Use forms provided in CMM Chapter 8. Note other information in a permanent field record and as a part of process control documentation enumerated in the contractor's quality control plan. Enter QC data and backfill material certified report results into the applicable materials reporting system (MRS) software within 5 business days after results are available.

Submit final testing records and other documentation to the engineer electronically within 10 business days after all contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

C.4.5 Quality Control (QC) Testing

Perform compaction testing on the backfill. Conform to CMM 8-15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 150 cubic yards of backfill, or major portion thereof in each lift. A minimum of one test for every lift is required. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Perform 1 gradation test every 750 cubic yards of fill and one 5-point Proctor test (or as modified in C.2) every 2,250 cubic yards of fill. Provide the region split samples of both within 72 hours of sampling, at the region laboratory. Test sites shall be selected using ASTM Method D3665. Provide Proctor test results to the engineer within 48 hours of sampling. Provide gradation test results to the engineer within 24 hours of sampling.

C.4.6 Department Testing

C.4.6.1 General

The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project and provide test results to the contractor within two business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.4.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

The department will locate density tests and gradation samples randomly, at locations independent of the contractor's QC work. The department will split each Proctor and gradation QV sample, testing half for QV, and retaining the remaining half for 10 business days.

The department will conduct QV Proctor and gradation tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.

The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If density QV test results are nonconforming, the area shall be reworked until the density requirements of this special provision are met. If the gradation test results are nonconforming, standard spec 106.5 will apply. Differing QC and QV nuclear density values of more than 1.5 pcf will be investigated and resolved. QV density tests will be based on the appropriate QC Proctor test results, unless the QV and QC Proctor result difference is greater than 3.0 pcf. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.4.6.3 Independent Assurance (IA)

Independent assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

- Split sample testing.
- Proficiency sample testing.
- Witnessing sampling and testing.
- Test equipment calibration checks.
- Reviewing required worksheets and control charts.
- Requesting that testing personnel perform additional sampling and testing.

If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.4.6.4.

C.4.6.4 Dispute Resolution

The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E178 to evaluate potential statistically outlying data.

Production test results, and results from other process control testing, may be considered when resolving a dispute.

If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.5 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation of the entire reinforced soil zone, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Modular Block Mechanically Stabilized Earth by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.652	Wall Modular Block Mechanically Stabilized Earth R-13-0338	SF
SPV.0165.653	Wall Modular Block Mechanically Stabilized Earth R-13-0339	SF
SPV.0165.654	Wall Modular Block Mechanically Stabilized Earth R-13-0340	SF
SPV.0165.655	Wall Modular Block Mechanically Stabilized Earth R-13-0342	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for parapets, traffic barriers, railings, and other items above the wall cap or coping.

98. Architectural Concrete Pavement 5-Inch, Item SPV.0180.001.

A Description

This work consists of furnishing and installing colored and imprinted concrete, complete and accepted in place, including base materials, sealer and samples according to standard spec 602, the plans, details, and as provided herein.

B Materials

At least 15 working days prior to the start of colored and imprinted concrete installation, supply one 4-foot x 4-foot panel sample of the colored imprinted concrete. The final color and stamp pattern is to be approved by the engineer prior to placement of any colored imprinted concrete in the field.

The sample shall become the property of the City of Madison upon completion of this project.

The concrete shall be grade A2 or grade A-FA as specified in standard spec 501.3.2.2. All colored concrete shall originate from the same batch plant.

B.1 Water Evaporative Reducer (Con Film):

A water evaporative reducer shall be used to hold in the bleed water for dry shake color hardener application. The water evaporative reducer shall be Dayton Superior Sure Film (J-74) or equal as approved by the engineer. It is recommended that the contractor confirm the type of water evaporative reducer to be used with the manufacturer of color hardener.

B.2 Dry Shake Color Hardener:

Use a dry shake color hardener with a color similar to Brickform Rafco Products color #425, Autumn Brown.

B.3 Release Agent:

Use a powder release agent with a color similar to Brickform Rafco Products color #300, Nutmeg.

B.4 Curing Compound:

The curing compound shall meet the specifications of ASTM C 1315 Type I Class A (TK Products AK-2 Achro Kure 1315 or equal) clear non-yellowing curing compound.

B.5 Imprinting Pattern:

6"x6" cobble stone pattern applied parallel to roadway centerline.

C Construction

Architectural Concrete Pavement, 5-Inch, shall be installed by an experienced contractor who has installed a minimum of 30,000 square feet of colored and imprinted concrete. Submit written documentation of imprinted concrete work to the engineer prior to the start of construction.

Apply water evaporative reducer per manufacturer's recommendations. Protect all adjoining areas of concrete. Finish concrete and apply dry shake color hardener per manufacturer's recommendations. Color hardener shall be hand-broadcasted uniformly across the concrete in two separate broadcasting operations (shakes). Two-thirds of the material shall be applied in the first shake with one-third being withheld for the second shake and final touch-up as necessary. Applications shall be made at 90 degrees to each other. The necessary moisture for wetting the color hardener must come from the concrete substrate. Adding water to the concrete surface to work in the dry shake color hardener is not permitted.

Apply release agent per manufacturer's recommendations.

Stamping method shall be per manufacturer's specified methods. Check all depths of imprints by tool to tool surface leveling.

Tooling is to be completed as stamping tools are removed following imprinting. Eliminate all squeeze joints between stamping tools, if any, with hand tools prior to concrete setting.

Remove excess release agent from the concrete 72 hours after placement using a stiff brush and a mild muriatic acid solution (approximately 4 oz per 2.5 gallons water) to achieve desired color. Rinse and let dry. Apply curing compound at 350 sq. ft/gal coverage rate or per manufacturer's recommendations to seal the concrete immediately after drying.

Joint the concrete according to standard spec 602.3.2.5 of the standard specifications amended as follows: Delete paragraph (10). Joints shall be sawed such that the saw joint follows the concrete pattern recess.

Architectural concrete pavement shall match the visual appearance of the approved referee sample. Architectural concrete pavement not conforming to the referee sample shall be replaced at the contractor's expense.

D Measurement

Architectural Concrete Pavement, 5-Inch, shall be measured as concrete installed and accepted in square yards.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.001	Architectural Concrete Pavement, 5-Inch	SY

Payment is full compensation for installation of concrete.

99. Topsoil Special, Item SPV.0180.002.

A Description

This special provision section describes furnishing, placing, spreading, and finishing humus-bearing soil, adapted to sustain plant life, commonly known as topsoil, from locations the contractor furnishes beyond the limits of the right-of-way.

This special provision also describes removing topsoil from the sites of proposed roadway excavations and embankments in quantities and depths available and necessary to cover the work slopes. This work also includes reclamation, placing, spreading, and finishing of this topsoil.

B Materials

Furnish material that is relatively free from large roots, sticks, weeds, brush, stones, litter, and waste products.

Furnish material, either obtained offsite, or material obtained within project limits, consisting of loam, sandy loam, silt loam, silty clay loam, or clay loam humus-bearing soils adapted to sustain plant life. Do not use surface soils from ditch bottoms, drained ponds, and eroded areas, or soils which are supporting

growth of NR 40 listed plants and noxious weeds or other undesirable vegetation. Ensure that the material conforms to the following:

Topsoil Requirements	Minimum Range	Maximum Range
Material Passing 2.00 mm (#10) Sieve ^[1]	90%	100%
PH Range	6.0	7.0
Organic Matter ^[2]	5%	20%
Clay	5%	30%
Silt	10%	70%
Sand & Gravel	10%	70%

^[1] See standard spec 625.3.3 for sieve requirements when using either sod or seed mixture 40.

^[2] Organic matter determined by loss on ignition test of samples oven dried to constant weight at 212 F (100 C).

C Construction

C.1 Preparing the Roadway for Topsoil

Undercut or underfill all areas designated to receive topsoil to a degree that if covered to the required depth with topsoil the finished work conforms to the required lines, grades, slopes and cross sections the plans and drawings show.

C.2 Processing Topsoil

Mow topsoil procurement areas to a height of approximately 6 inches. Remove litter such as brush, rock, and other materials that will interfere with subsequent vegetation establishment.

Strip off the humus-bearing soil. Take care to minimize removing the underlying sterile soil. Then stockpile the topsoil on the right-of-way or place it directly on the designated areas.

Obtain topsoil from embankment areas outside the roadway foundation only if that additional material is required to cover the slopes and conforms to the requirements of section B in this special provision. Use excess topsoil on the project or dispose of as specified in standard spec 205.3.12.

C.3 Placing Topsoil

After preparing and finishing the areas designated for topsoil to the required lines, grades, slopes and cross section, place and spread the topsoil to a uniform depth as the plans show or the contract requires. If no depth is shown, place and spread the topsoil to a minimum depth of 4 inches in rural areas and a minimum depth of 6 inches in urban areas, or as the engineer designates.

Break down all clods and lumps using appropriate equipment to provide a uniformly textured soil.

Where using either sod or seed mixture 40 ensure that, for the upper 2 inches, 100 percent of the material passes a one-inch sieve and at least 90 percent passes the No. 10 sieve.

Remove rocks, twigs, foreign material, and clods that cannot be broken down. Dress the entire surface to present a uniform appearance. The engineer will not require rolling.

If light sandy soils are covered with heavier clay bearing loam topsoil, then mix or blend the 2 types of soils to a more or less homogeneous mixture by using the appropriate equipment.

D Measurement

The department will measure Topsoil Special acceptably completed by the square yard. The measured quantities shall equal the actual number of square yards of topsoiled area to the depth specified within the limits of construction designated on the plans, or in the contract, or as the engineer directs.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.002	Topsoil Special	SY

Payment for Topsoil Special is full compensation for removing, stockpiling, reclaiming, providing, processing, excavating, loading, hauling, and placing this material; and for undercutting excavations, or underfilling embankments necessary to receive this material. The department will make no allowance, adjustment, or measurement for payment under the Excavation bid items for undercutting cut sections, underfilling embankments, or deductions for materials obtained from areas of cut sections.

If an area is damaged by erosion after partial acceptance, the department will pay for restoring topsoil in these areas at a unit price determined by multiplying the contract unit price bid for Topsoil multiplied by 3, the department will pay for restoration under the Restoration Post Acceptance Topsoil administrative item.

The department will not pay for removing topsoil from outside the roadway foundation in embankment areas unless that material is necessary to cover the slopes.

sef-625-005 (20170310)

**ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)
PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS**

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including “pipeline” activities. The core programs includes: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

TrANS is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor’s needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

- 1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of \$5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.

Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 2 (number) TrANS Graduate(s) be utilized on this contract.

- 2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of \$5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 2 (*number*) TrANS Apprentice(s) be utilized on this contract.

- 3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.
- 4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.
- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

I. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE [DBE] PROGRAM IMPLEMENTATION

1. Description

- a. The federal DBE program requirements outlined in the Code of Federal Regulations at 49 CFR Part 26 apply to this Wisconsin Department of Transportation contract. WisDOT is a recipient of federal funds and this contract includes federal funds. United States Department of Transportation Federal DBE Program requires the following provisions:
 - (1) Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE regulations will be considered a material breach of contract. This is non-negotiable. If a contractor fails to carry out the DBE program and Title VI nondiscrimination requirements of its contracts, the following sanctions will be assessed depending upon the facts, reasoning, severity and remedial efforts of the contractor: termination of contract, withholding payment, assessment of monetary sanctions, assessment of liquidated damages and/or suspension/debarment proceedings that may result in the disqualification of the contractor from bidding for a designated period of time.
 - (2) The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains the federal fund recipient's [DOT] written consent. Unless [WisDOT] consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.
- b. The Wisconsin Department of Transportation [WisDOT] is committed to the compliant administration of the DBE Program. Each WisDOT Secretary affirms this commitment with his/her signed assurance.
<https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/policy-statement.pdf>
 - (1) The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
 - i. Produce accurate and complete quotes.
 - ii. Understand highway plans applicable to their work.
 - iii. Understand specifications and contract requirements applicable to their work.
 - iv. Understand contracting reporting requirements.
 - (2) Wisconsin DOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned, specified contract DBE goal by subcontracting work to a DBE or by procuring services or materials from a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.
 - (3) For more comprehensive information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at:
<https://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

2. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
- b. **DBE:** A small business certified as disadvantaged business enterprise (DBE) under the federal DBE program and included on the Wisconsin UCP DBE Directory deemed ready, willing and able.
- c. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
- d. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
- e. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
- f. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually commits to DBE participation at or above the bid percentage, or certifies that they have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. The bid percentage should demonstrate the efforts of the prime contractor prior to bid. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

4. WisDOT Interpretation of Federal DBE Program Provision

Prime contractors must utilize the specific DBEs listed to perform the work and/or supply the materials for which each is listed on the Commitment to Subcontract to DBE Form [DT1506] and approved by WisDOT's DBE office to execute its contract. The approved Commitment to Subcontract to DBE Form [DT1506] becomes a contract document/record.

a. Department's DBE Evaluation Process

WisDOT evaluates DBE using the Commitment to Subcontract to DBE, payments to subcontractors and contract documentation. The prime contractor shall list the specific DBE certified firms and items of work s/he intends to use toward the fulfillment of the assigned DBE contract goal. The prime contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved Form DT1506.

b. Documentation Submittal

The contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506]. Effective January 1, 2017, the contractor will be required to submit the documentation within 5 business days after bid opening. All necessary supporting documentation including Attachment 'A' forms and/or Good Faith Efforts Form

[DT1202] must be submitted no later than 2 business days from contractor's initial submission of the DT 1506. The contractor must provide a signed Attachment 'A' form to the DBE office within the time limit in order to receive authorization for contract execution; the DBE office reserves the right accept alternate documentation in lieu of the signed form in extenuating circumstances. Documentation must be submitted to the DBE Office by email at DBE_Alert@dot.wi.gov (DBE_Alert@dot.wi.gov) or by postal mail ATTN: DBE Office, PO Box 7965, Madison, WI 53707-7965.

(1) **Bidder Meets DBE Goal**

If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage calculation. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

(2) **Bidder Does Not Meet DBE Goal**

- i. If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Efforts Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith efforts submission.
- ii. The department will evaluate the bidder's good faith effort request and notify the bidder of one of the following:
 - (a) If the department grants a good faith efforts, the bid is eligible for contract execution with respect to DBE commitment.
 - (b) If the department rejects the good faith efforts request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith efforts request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

c. **Bidder Fails to Submit Documentation**

If the contractor fails to furnish the Commitment to Subcontract to DBE Form [DT1506] within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

5. Department's Criteria for Good Faith Effort

Appendix A of 49 CFR Part 26, is the guiding regulation concerning good faith efforts. However, the federal regulations do not explicitly define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own practices to create a process for making a determination of adequate good faith. WisDOT evaluates good faith on a contract basis just as each contract award is evaluated individually.

The department will only approve a contractor's good faith efforts if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith efforts will be granted. The bidder must demonstrate, on the DT1202 that they have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

- a. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

b. Prime Contractors should:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT- approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
- (2) Prime contractors may request assistance with DBE outreach and follow-up by contacting the department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Requesting assistance with outreach is not a decisive factor in the review Good faith effort evaluation. Phone numbers are 414-438-4584 and/or 414-659-0487; Fax: 414-438-5392; E-mail: DOTDBESupportServices@dot.wi.gov.
- (3) Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
 - i. Solicit quotes from certified DBE firms who match 'possible items to subcontract' using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which you are seeking quotes to DOTDBESupportServices@dot.wi.gov.
 - ii. SBN is the preferred outreach tool. <https://www.bidx.com/wi/main>. Other acceptable means include postal mail, email, fax, phone call.
 - (a) Primes must ask DBE firms for a response in their solicitations. See *Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
 - (b) Solicit quotes at least 10 calendar days prior to the letting date, at least two Fridays before the letting, to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
 - (c) Second solicitation should take place within 5 calendar days. Email and SBN are the preferred delivery of the follow-up solicitation.
 - iii. Upon request, provide interested DBE firms with adequate information about plans, specifications and the requirements of the contract by letter, information session, email, phone call and/or referral.
 - iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit or insurance if requested.
 - v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
 - (a) Email to all prospective DBE firms in relevant work areas.
 - (b) Phone call log to DBE firms who express interest via written response or call.
 - (c) Fax/letter confirmation
 - (d) Signed copy of Bid Express SBN Record of Subcontractor Outreach Effort.

c. Evaluate DBE quotes Documentation is critical if a prime does not utilize the DBE firm's quote for any reason.

- (1) Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, **a discussion with the DBE firm** regarding its capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area and/or NAICS code listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
- (2) In striving to meet an assigned DBE contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.

- (3) **Special Circumstance** - Evaluation of DBE quotes with tied bid items. "Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as 'all or none' quote to the prime." When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms' quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.
 - i. Compare bid items common to both quotes, noting the reasonableness in the price comparison.
 - ii. Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.
- d. Immediately after notification of contract award, the prime submits all **'Commitment to Subcontract'** forms to the DBE Office. Prime contractor has 5 days to submit the completed form for the DBE firms it intends to use on the contract for DBE credit. If the goal is not met in full, the prime contractor must provide the following information along with WisDOT form DT1202: Certificate of Good Faith Efforts.
 - (1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact.
 - (2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
 - (3) Photocopies or electronic copies of all written solicitations to DBE's. A printed copy of SBN solicitation is acceptable.
 - (4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
 - (5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.

The prime contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved Commitment to Subcontract to DBE Form [DT1506]. If the prime contractor utilizes another contractor, including the use of its own workforce, to perform the work assigned to a DBE on the approved DT1506, the prime contractor will not be entitled to payment for that work. Any changes to DBE after the approval of the DT1506 must be reviewed and approved by the DBE office prior to the change.

6. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE, a prime contractor and the regular dealer of materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE in cases where the prime has submitted the DBE and material for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
 - (1) Request should be made when the DBE Commitment form or Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
 - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
 - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
 - (4) The joint check for supplies must be strictly for the cost of supplies.
- b. DBE subcontractor is responsible to furnish and/or install the material/work item. The DBE subcontractor shall not be an 'extra participant' in the transaction; the DBE's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following.
 - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price and delivery of materials;
 - (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor,
 - (1) The prime agrees to furnish the check used for the payment of materials/supplies under the contract.
 - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractors negotiated unit price.

7. Bidder's Appeal Process

- a. A bidder can appeal the department's decision to deny the bidder's good faith effort submission. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so requested. Failure to appeal within 7 calendar days after receiving the department's written denial notice of a good faith effort evaluation constitutes a forfeiture of the bidder's right of appeal. A contract cannot be executed without documentation that the DBE provisions have been fulfilled.
- b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 5 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

8. Department's Criteria for DBE Participation

Directory of DBE firms

- a. The only resource for DBE certified firms certified in the state of Wisconsin is the Wisconsin Unified Certification Program [UCP] DBE List. Wisconsin Department of Transportation maintains a current list of certified DBE firms titled Wisconsin UCP DBE Directory on the website at:
<https://wisconsin.gov/Documents/doing-business/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE office is also available to assist at 414-438-4583 or 608-267-3849.

9. Counting DBE Participation

Assessing DBE Work

- a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:
- b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.
- c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.
- d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.
- e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.
- f. It is the prime contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE certified firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.
- g. It is the prime contractor's responsibility to assess the DBE firm's ability to perform the work for which s/he is committing/contracting the DBE to do. Note that the department encourages the prime contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.

10. Commercially Useful Function

- a. Commercially useful function is evaluated after the contract has been executed, while the DBE certified firm is performing its work items. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved.
- b. The department uses Form DT1011: DBE Commercially Useful Function Review and Certification to evaluate whether the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- c. A DBE is performing a commercially useful function if the following conditions are met:
 - (1) For contract work, the DBE is responsible for executing a distinct portion of the contract work and it is carrying out its responsibilities by actually performing, managing, and supervising that work.
 - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

11. Credit Evaluation for Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at <https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

12. Credit Evaluation for Manufacturers, Suppliers, Brokers

The department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The department will count the material and supplies that a DBE provides under the contract for DBE credit based on whether the DBE is a manufacturer, supplier or broker. Generally, DBE crediting measures and evaluates the DBE owner's role, responsibility and contribution to the transaction: maximum DBE credit when the DBE manufactures materials or supplies; DBE credit decreases when the DBE solely supplies material and minimal credit is allotted when the DBE's role is administrative or transactional.

It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

a. Manufacturers

- (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, count **100%** percent of the cost of the materials or supplies toward DBE goals.

b. Regular Dealers of Material and/or Supplies

- (1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
- (2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
- (3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
 - i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
 - ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.

c. Brokers, Transaction Expeditors, Packagers, Manufacturers Representatives

- (1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit; however, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives or other persons who arrange or expedite transactions.
- (2) Brokerage fees have historically been calculated as **10%** of the purchase amount.
- (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site.
- (4) The evaluation will review the contract need for the item/service, review the sub-contract or invoice for the item/service, compare the fees customarily allowed for similar services to determine whether they are reasonable.

When DBE suppliers are contracted, additional documentation must accompany the DT1506 and Attachment 'A' forms. An invoice or bill-of-sale that includes the company names of the bidder and the DBE supplier and documentation of the calculations used as the basis for the purchase agreement, subcontract or invoice.

WisDOT recognizes that the amount on the Attachment 'A' form may be more or less than the amount on the invoice. Please respond to the following questions and submit with your DBE Commitment Form.

1. What is the product or material?
2. Is this item in the prime's inventory or was the item purchased when contract was awarded?
3. Which contract line items were referenced to develop this quote?
4. What is the amount of material or product used on the project?

13. Credit Evaluation for DBE Primes

Wisconsin DOT calculates DBE credit based on the amount and type of work performed by DBE certified firms. If the prime contractor is a DBE certified firm, the department will only count the work that DBE prime contractor performs with its own forces for DBE credit. We will also calculate DBE credit for the work performed by any other DBE certified subcontractor, DBE certified supplier, DBE certified manufacturer on that contract in that DBE's approved work areas/NAICS code. Crediting for manufacturers and suppliers is calculated consistent with paragraph 12 of this document and 49 CFR Part 26.

14. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces for DBE credit.

15. Mentor Protégé

- a. If a DBE performs as a participant in a mentor protégé agreement, the department will count for credit the portion of the work performed by the DBE protégé firm.
- b. DBE credit will be evaluated and confirmed by the DBE Office for any contracts on which the mentor protégé team identifies itself to the DBE Office as a current participant of the Mentor Protégé Program.
- c. Refer to WisDOT's Mentor Protégé guidelines for guidance on the number of contracts and amount of DBE credit that can be counted on any WisDOT project.

16. DBE Replacement or Termination

Contractual Requirement

The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains written consent from the Department's DBE Office. If the Department does not provide consent to replace or terminate a DBE firm, the prime contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.

Contractor Considerations

- a. A prime contractor cannot terminate and/or replace a DBE subcontractor listed on the approved Commitment to Subcontract to DBE Form [DT1506] without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

- b. If a prime contractor feels it is necessary to replace or terminate a DBE firm that has been approved for DBE credit toward its contract, s/he will be required to provide reasons and documentation to support why the prime cannot fulfill the contractual commitment that it made to the Department regarding the DBE utilization.
- c. Prime contractor is required to make affirmative efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE that was terminated, to the extent needed to meet the assigned DBE contract goal.
- d. In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason or is terminated from a contract, the prime contractor is expected to make affirmative efforts to maintain its commitment to the assigned DBE goal.
- e. The DBE firm should communicate with the prime contractor regarding its schedule and capacity in the context of the contract. If the DBE anticipates that it cannot fulfill its subcontract, s/he shall advise the prime contractor and suggest a DBE that may replace their services or provide written consent to be released from its subcontract.
 - (1) Before the prime contractor can request to terminate or substitute a DBE firm; s/he must:
 - i. Make every effort to fulfill the DBE commitment by working with the listed DBE to ensure that they are fully knowledgeable of your expectations for successful performance on the contract. Document these efforts in writing.
 - ii. If those efforts fail, provide written notice to the DBE subcontractor of your *intent* to request to terminate and/or replace the firm including the reason(s) you want to pursue this action.
 - iii. Copy the DBE Office on all correspondence related to changing a DBE firm who has been approved for DBE credit on a contract including the preparation and coordination efforts with the DBE on the contract.
 - iv. Clearly state the amount of time the DBE firm has to remedy and/or respond to your notice of intent to replace/terminate their firm from the contract. The DBE shall be allowed five days to respond, in writing. **EXCEPTION:** The prime contractor must provide a verifiable reason for a response period shorter than five days. For example a WisDOT project manager must verify that waiting 5 days for a DBE performing traffic control work to respond would affect the public safety.
 - v. The DBE subcontractor must forward a written response to the prime contractor and copy the DBE Office. The written response must outline why it objects to the proposed termination of its subcontract and list the reasons that WisDOT should not approve the request for their firm to be replaced or removed from the contract.

The Request to Replace or Terminate a DBE

The prime contractor must provide a written request to replace or terminate a DBE firm that has been approved for DBE credit on a WisDOT contract. The written request can be an email or printed document delivered by email or fax; at minimum, the request must contain the following:

1. Contract ID number.
2. Wisconsin DOT Contract Project Manager name and contact information.
3. DBE name and work type and/or NAICS code.
4. Contract's progress schedule.
5. Reason(s) for requesting that the DBE be replaced or terminated.
6. Attach/include all communication with the DBE to deploy/address/resolve work completion,

WisDOT will review your request and any supporting documentation that you submit to evaluate whether the circumstance and the reasons constitute a good cause for replacing or terminating the DBE that was approved for DBE credit on that contract.

Examples of Good Causes to Replace a DBE according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract.
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor.
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements.
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.
- You have determined that the listed DBE subcontractor is not a responsible contractor.
- The listed DBE subcontractor voluntarily withdraws from the project and provides to you written notice of its withdrawal.
- The listed DBE is ineligible to receive DBE credit for the type of work required.
- A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract.

Evaluation and Response to the Request

If WisDOT determines that your reasons comply with the good cause standards; the DBE office will send the prime contractor and the WisDOT project manager an email stating that we concur with the reasons and approve the replacement or termination.

If WisDOT determines that your reasons do not comply with the good cause standards of the federal DBE program, the DBE Office will send the prime contractor an email that includes *the requirement* to utilize the committed DBE, *remedial actions* to support the completion of the contractual commitment, a list of available WisDOT support services *and administrative remedies that may be invoked* for failure to comply with federal DBE guidelines for DBE replacement.

The Wisconsin Department of transportation contact for all actions related to replacing a DBE is the DBE Program Chief and/or the DBE Program Engineer which can be reached at DBE_Alert@dot.wi.gov or by calling 608-267-3849.

17. DBE Utilization beyond the approved DBE Commitment Form DT1506

If the Prime/subcontractor increases the scope of work for a participating DBE or adds a DBE subcontractor that was not on the approved Form DT1506 at any time after contract award, s/he should follow these steps so that the participation can be accurately credited toward the DBE goal.

- a. Send an email to the DBE Engineer at DBE_Alert@dot.wi.gov describing the work to be performed by the new DBE including the proposed schedule or duration, DBE name and contact information. You may also call the DBE Engineer at 414-659-0487 to notify him of the change verbally.
If the scope change added work for a participating DBE; list the date and reason for the scope change.
- b. Forward a complete, signed Attachment 'A' form to the DBE Office at DBE_Alert@dot.wi.gov. A complete Attachment A includes DBE contact information, signature, subcontract value and proper description of the work areas to be performed by the DBE.
The DBE office will confirm the DBE participation and revise the DT1506 based on the email/discussion and attach the new/revised Attachment A to the Contract record/documentation.

18. Contract Modifications

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors that were committed to equal work items, in the original contract.

19. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

APPENDIX A

Sample Contractor Solicitation Letter Page 1

This sample is provided as a guide not a requirement

GFW SAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: REQUEST FOR DBE QUOTES
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but prime's alternatives are acceptable. Our office hours are include hours and days. Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx>

All questions should be directed to:

Project Manager, John Doe,

Phone: (000) 123-4567

Email: Joe@joetheplumber.com

Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTATION

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

- .. Yes, we will be quoting on the projects and items listed below
- .. No, we are not interested in quoting on the letting or its items referenced below
- .. Please take our name off your monthly DBE contact list
- .. We have questions about quoting this letting. Please have someone contact me at this number

Prime Contractor 's Contact Person

Phone: _____
Fax: _____
Email: _____

DBE Contractor Contact Person

Phone _____
Fax _____
Email _____

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

APPENDIX B

BEST PRACTICES FOR PRIME CONTRACTOR & DBE SUBCONTRACTOR GOOD FAITH EFFORT

This list is not a set of requirements; it is a list of potential strategies

Primes

- Ø Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance.
- Ø Participate in speed networking and mosaic exercises as arranged by DBE office.
- Ø Host information sessions not directly associated with a bid letting.
- Ø Participate in a formal mentor protégé or joint venture with a DBE firm.
- Ø Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Ø Facilitate a small group DBE ‘training session’ Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods.
- Ø Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Ø Quality of communication, not quantity creates the best results. Contractors should do as thorough a job as possible in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- Ø DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Ø Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Ø Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list, and bid tabs at a minimum.
- Ø Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation-related projects of similar size and scope, firm expertise and staffing.
- Ø Participate in DBE office assessment programs.
- Ø Participate on advisory and mega-project committees.
- Ø Sign up to receive the DBE Contracting Update.
- Ø Consider membership in relevant industry or contractor organizations.
- Ø Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX C

Types of Efforts considered in determining GFE

This list represents concepts being assessed; analysis requires additional steps

1. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by WisDOT to inform DBEs of contracting and subcontracting opportunities.
2. Whether the contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract was being solicited, in sufficient time to allow the DBEs to participate effectively.
3. Whether the contractor followed up initial solicitations of interest by contacting DBEs to determine if the DBEs were interested; returned the phone calls of interested DBE firms.
4. Whether the contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goal.
5. Whether the contractor provided interested DBEs with adequate information about the plans, specifications and requirements of the contract.
6. Whether the contractor negotiated in good faith with interested DBEs, not rejected DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities.
7. Whether the contractor made efforts to assist interested DBEs in being more competitive.
8. Whether the contractor effectively used the services of available minority community organizations: minority contractors groups, local, state, and Federal minority business assistance offices, and other organizations that provide assistance to small businesses and DBE firms.
9. Whether Prime used CRCS to identify DBE who specialize in relevant work areas.
10. Whether the contractor used available resources including contacting the DBE office, using WisDOT's website
11. Whether the contractor returned calls of firms expressing interest in a timely manner.

APPENDIX D

Good Faith Effort Evaluation Guidance

Excerpt from Appendix A of 49 CFR Part 26

APPENDIX A TO PART 26 -- GUIDANCE CONCERNING GOOD FAITH EFFORTS

- I. When, as a recipient, you establish a contract goal on a DOT assisted contract, a bidder must, in order to be responsible and/or responsive, make good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.
- II. In any situation in which you have established a contract goal, part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, it is up to you to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made. The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call: meeting quantitative formulas is not required.
- III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.
- IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.
 - A. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
 - B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 - C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - D.
 - (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
 - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a

contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

- E. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non solicitation of bids in the contractor's efforts to meet the project goal.
 - F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
 - G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- V. In determining whether a bidder has made good faith efforts, you may take into account the performance of other bidders in meeting the contract. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts.

Appendix E

Small Business Network [SBN] Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription.

Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
 - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for completion at a later time.
2. Create sub-quotes for the subcontracting community:
 - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
 - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
 - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE-preferred request.
 - d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
 - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
 - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
 - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
 - b. Easily locate pre-qualified and certified small and disadvantaged businesses.
 - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
 - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs.

1. View and reply to sub-quote requests from primes:
 - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests, or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
 - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
 - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes.
 - c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
 - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
 - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
 - c. Add attachments to a sub-quote.
 - d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime.
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to www.bidx.com and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.
 - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

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

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

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

Additional Special Provision 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

104.3 Contractor Notification

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

104.3.1 General

- (1) Subsection 104.3 specifies the step-by-step communication process to be followed to expedite the resolution of potential contract revisions identified by the contractor. Both contractor actions and department responses are outlined. The contractor's non-compliance with the requirements of 104.3 may constitute a waiver of entitlement to a pay adjustment under 109.4 or a time extension under 108.10. The department and contractor can mutually agree to extend any time frame specified throughout 104.3.

104.3.2 Contractor Initial Oral Notification

- (1) If required by 104.2, or if the contractor believes that the department's action, the department's lack of action, or some other situation results in or necessitates a contract revision, the contractor must promptly provide oral notification to the project engineer. Upon notification, the project engineer will attempt to resolve the identified issue.

104.3.3 Contractor 5-Day Written Statement

- (1) If the project engineer has not responded or resolved the identified issue within 5 business days after receipt of initial notification, provide a contractor written statement to the project engineer in the following format:

Part 1 - Executive Summary (label page 1.1 through page 1.x)

Include a detailed, factual statement of the request for additional compensation and contract time. Include the date the issue was identified, the date initial notification was given to the project engineer, and the dates and specific locations of work involved.

Part 2 - Contractor's Basis of Entitlement (label page 2.1 through page 2.x)

Include references to relevant contract provisions and a narrative summarizing how the contract provisions support the request for a revision to the original contract.

Part 3 - Contractor's Request for Damages (label page 3.1 through page 3.x)

When requesting additional compensation, include an itemized list of costs with a narrative supporting the requested amount and explaining how the costs are tied to the requested contract revision.

When requesting additional contract time, include a copy of the schedule that was in effect when the issue occurred and a detailed narrative explaining how the issue impacted controlling items of work. Provide a time impact analysis utilizing base and updated schedules.

If the full extent of either compensation or time is not known at the date of submittal of the contractor 5-Day written statement, provide a brief statement as to why, and include estimated compensation and time.

Part 4 - Supporting Documentation (label page 4.1 through page 4.x)

Include copies of the following:

- A. Relevant excerpts from specifications, special provisions, plans, change orders, or other contract documents.
 - B. Communication on the issue, including: letters, e-mails, meeting minutes, etc.
 - C. Any other documentation to support or clarify the contractor's position, including: daily work records, cost summary sheets, weigh tickets, test results, sketches, etc.
- (2) With the submittal of the written statement, the contractor may also request a meeting with the region.

104.3.4 Region One-Day Written Acknowledgment

- (1) Within one business day after the contractor provides the 5-day written statement, the project engineer will provide a region one-day written acknowledgment to the contractor. The project engineer will continue to resolve the issue.

104.3.5 Region 5-Day Written Response

- (1) Within 5 business days after receiving the contractor 5-day written statement, the project engineer may request specific additional information to allow the project engineer to decide whether item 1 or 2 of 104.3.6(1) applies. The project engineer will state the information needed and date it is to be

received for further review. Submit additional information as an amendment to the contractor 5-day written statement.

104.3.6 Region Final Decision

- (1) Within 10 business days after receiving the contractor 5-day written statement or additional information requested in 104.3.5(1), whichever comes last, the region will consider all information and provide a region final decision in writing to the contractor with one or more of the following responses:
 1. The region will confirm that the contractor is entitled to a contract revision and a contract change order is necessary as specified in 104.2. The project engineer will give direction concerning the potential change.
 2. The region will deny that the contractor is entitled to a contract revision. The project engineer will provide a statement as to why the issue is not a change to the contract. At a minimum, the project engineer will respond to the contractor's issues and refer to the contract to show why the issues are not a change from the original contract.
 - (2) If the contractor does not agree with the region's decision the contractor may pursue the issue as a claim as specified in 105.13. Alternatively, if the contractor and department mutually agree, the department will get a third-party advisory opinion according to the department's dispute resolution procedures.
 - (3) If a third party reviews the issue, their recommendation is not binding on either party. The region has 10 business days after receipt of the third party's written recommendation to render a decision. If the department fails to respond in writing within those 10 business days or the contractor disagrees with the region's decision, the contractor may pursue the issue as a claim as specified in 105.13.
-

104.6.1.2.1 General

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

- (1) Conduct construction operations and provide facilities required to maintain the portion of the project open to the public in a condition that safely and adequately accommodates public traffic. Use barricades, signs, flaggers, and temporary barrier as specified in part VI, of the WMUTCD and ensure that the contractor's use of the right-of-way conforms to 107.9. Throughout the life of the contract, and as the engineer directs, conduct construction operations and provide facilities as follows:
 - Conduct flagging operations conforming to plan details and the department's flagging handbook.
 - Use drums, barricades, and temporary barrier to delineate and shield abrupt drop-offs and other hazards.
 - Furnish, erect, and maintain traffic control devices and facilities conforming to 643.
 - Furnish, erect, and maintain temporary pedestrian devices and facilities conforming to 644.
-

104.6.1.2.2 Flagging

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

- (3) Provide associated advanced warning signs that meet the retroreflective requirements of 637.2.2.2. Provide temporary portable rumble strips from the department's APL installed according to manufacturer's instructions and as specified in the flagging plan details. Provide guidance service through the worksite using pilot vehicles if required.

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

- (5) Flagging is incidental to the contract and includes costs for advance signing, temporary portable rumble strips, and pilot vehicle guidance service.

104.8 Rights in the Use of Materials Found on the Project

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

- (2) Do not excavate or remove material from within the right-of-way that is not within the vertical and horizontal excavation limits the plans show except as follows:
- If the contract does not identify potential source areas, obtain written authorization from the engineer to use those sources. Complete required environmental documentation and obtain necessary permits. The department will reduce pay by \$1.50 per cubic yard under the Material from Right-of-Way administrative item for material obtained from those areas.
 - If the contract identifies potential source areas that were evaluated and permitted in the original environmental document, do not begin excavating in those areas until the engineer allows in writing. Additional environmental documentation and environmental permits are not required. The department will not reduce pay for material obtained from those areas.

The department may suspend use of these sources if the contractor's operation affects the essential functions or characteristics of the project.

104.10.1 General

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

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

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

- (5) The department will consider a CRI that changes but does not impair the essential functions or characteristics of the project. These functions or characteristics include, but are not limited to, appearance, service life, economy of operations, ease of maintenance, design, and safety of structures and pavements, construction phasing or procedures, or other contract requirements. The department will not consider a CRI that changes the following:
- Permanent pavement type.
 - Permanent structural cross section above the subgrade.
-

104.10.2 Submittal and Review of a CRI Concept

Replace paragraphs five and six with the following effective with the December 2019 letting:

- (5) The department may consider a CRI concept that addresses a potential change under 104.2.
- (6) The department will not implement a contractor-initiated CRI concept, or portion of that concept, without sharing the cost savings with the contractor as specified in 104.10.4.2.
- (7) The savings generated by the CRI must be sufficient to warrant its review and processing and offset the level of risk. The department will assess the risk of the CRI relative to departmental design policies and criteria for the project. The department may reject a CRI concept for the following reasons:
1. It requires excessive time or costs for the contractor to develop the CRI proposal.
 2. It requires excessive time or costs for review, evaluation, investigation, or implementation.
 3. It introduces an inappropriate level of risk.

104.10.4.2 Payment for the CRI Work

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

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

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

Where:

NS = Net Savings

CW = The cost of the work required by the original contract that is revised by the CRI. CW is computed at contract bid prices if applicable.

CRW = The cost of the revised work, computed at contract bid prices if applicable.

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

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

105.13 Claims Process for Unresolved Changes

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

105.13.1 General

- (1) Before submitting a claim, the department and contractor can mutually agree to have the department get a third-party advisory opinion as specified in 104.3.6.
- (2) The department and contractor can mutually agree to extend any time frame specified throughout 105.13 and can mutually agree to utilize an alternative dispute resolution method at any point before the department renders its final decision.
- (3) The department and contractor share costs related to referral to a dispute review board (DRB) as prescribed in the department's dispute resolution procedures.

105.13.2 Notice of Claim

- (1) If the contractor has followed the procedures for revising the contract specified in 104.2 and provided the notification specified in 104.3, but still disagrees with the region, the contractor may pursue the issue as a claim. File a notice of claim with the project engineer concerning the disagreement within 14 calendar days of receiving the region's decision under 104.3.6(1).
- (2) The project engineer may deny the applicable portion of a claim if the contractor does not do the following:
 1. File the notice of claim within 14 calendar days as specified in 105.13.2(1).
 2. Give the project engineer sufficient access to keep a record of the actual labor, materials, and equipment used to perform the claimed work.

- (3) Upon filing the notice of claim, maintain records as specified for force account statements in 109.4.5. Unless the project engineer issues a suspension, continue to perform the disputed work. The department will continue to make progress payments to the contractor as specified in 109.6.

105.13.3 Submission of Claim

- (1) Submit the claim to the project engineer as promptly as possible following the submission of the Notice of Claim, but not later than the end of the time allowed under 109.7 for the contractor to respond in writing to the engineer-issued semi-final estimate. If the contractor does not submit the claim within that response time, the department will deny the claim.
- (2) The department will not accept the submission of a claim until the resolution process in 104.3 has been completed and the contractor makes no further requests to submit updated information that may affect the region's final decision.

105.13.4 Content of Claim

- (1) The final contractor written statement under 104.3.3 is considered the content of the claim. If the contractor makes a request to submit updated information that may affect the region's final decision under 104.3.6, submit the updated information as an amendment to the contractor written statement and continue the resolution process in 104.3 before submitting a claim.
- (2) The department may refer the claimant of a false claim to the appropriate authority for criminal prosecution. Certify the claim using the following form:

The undersigned is duly authorized to certify this claim on behalf of (the contractor).

(The contractor) certifies that this claim is made in good faith, that the supporting data are accurate and complete to the best of (the contractor's) knowledge and belief, and that the amount requested accurately reflects the contract adjustment for which (the contractor) believes that the department is liable.

(THE CONTRACTOR)

By: _____

(Name and Title)

Date of Execution: _____

105.13.5 Department Final Decision

- (1) The department will have up to 28 calendar days, from the contractor's submission of the claim, to perform a final review of the claim and conduct all meetings. The department may request, in writing, that the contractor submit additional information related to the claim. Submit that additional information, or notify the department in writing to base its decision on the information previously submitted. Either the contractor or region may request a meeting to present their views. Before the meeting, both parties will agree upon written ground rules for the meeting.
- (2) Upon completion of the 28 calendar days for the department's review and meetings, the department will have up to 21 calendar days to render a written decision. The department will consider written and oral submissions from the contractor and region, and may consider other relevant information in the project records.
- (3) The department will provide the following in its final decision:
 1. A concise description of the claim.
 2. A clear, contractual basis for its decision that includes a reference to 104.2 on revisions to the contract and as appropriate, specific reference to language regarding the bid items in question.
 3. Other facts the department relies on to support its decision.
 4. A concise statement of the circumstances surrounding the claim and reasons for its decision. If the department rejects the claim in whole or in part, the department will explain why the claimed work is not a change to the contract work.
 5. The amount of money or other relief, if any, the department will grant the contractor.
- (4) If the contractor disagrees with the department's final decision, the contractor may initiate a legal action pursuant to state statutes.

106.3.4.2.2.2 Freeze-Thaw Soundness

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

- (1) Perform freeze-thaw soundness testing according to AASHTO T103 as modified in CMM 8-60.2. Provide freeze/thaw soundness test results based on the fraction retained on the No. 4 sieve as follows:
 1. Using virgin crushed stone aggregates produced from limestone/dolomite sources in one or more of the following counties or from out of state:

Brown	Columbia	Crawford	Dane	Dodge
Fond du Lac	Grant	Green	Green Lake	Iowa
Jefferson	Lafayette	Marinette	Oconto	Outagamie
Rock	Shawano	Walworth	Winnebago	
 2. Using gravel aggregates produced from pit sources in one or more of the following counties or from out of state:

Dodge	Washington	Waukesha
-------	------------	----------

208.5 Payment

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

- (3) The department will adjust pay for material obtained from within the project right-of-way limits but outside project excavation limits, furnished under 208.2.2, as specified in 104.8.

301.2.3 Sampling and Testing

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

- (1) Department and contractor testing shall conform to the following:

Sampling ^[1]	AASHTO T2
Percent passing the 200 sieve	AASHTO T11
Gradation ^[1]	AASHTO T27
Gradation of extracted aggregate	AASHTO T30
Moisture content ^[1]	AASHTO T255
Liquid limit	AASHTO T89
Plasticity index	AASHTO T90
Wear	AASHTO T96
Sodium sulfate soundness (R-4, 5 cycles)	AASHTO T104
Freeze/thaw soundness ^[1]	AASHTO T103
Lightweight Pieces in Aggregate	AASHTO T113
Fracture	ASTM D5821 as modified in CMM 8-60
Moisture/density ^[1]	AASHTO T99 and AASHTO T180
In-place density ^[1]	AASHTO T191
Asphaltic material extraction	CMM 8-36 WisDOT Test Method 1560

^[1] As modified in CMM 8-60.

301.2.4.5 Aggregate Base Physical Properties

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

- (1) Furnish aggregates conforming to the following:

TABLE 301-2 AGGREGATE BASE PHYSICAL PROPERTIES

PROPERTY	CRUSHED STONE	CRUSHED GRAVEL	CRUSHED CONCRETE	RECLAIMED ASPHALT	REPROCESSED MATERIAL	BLENDED MATERIAL
Gradation AASHTO T27						
dense	305.2.2.1	305.2.2.1	305.2.2.1	305.2.2.2	305.2.2.1	305.2.2.1 ^[1]
open-graded	310.2	310.2	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>
Wear AASHTO T96 loss by weight	<=50%	<=50%	note ^[2]	—	note ^[2]	note ^[3]
Sodium sulfate soundness AASHTO T104 loss by weight						
dense	<=18%	<=18%	—	—	—	note ^[3]
open-graded	<=12%	<=12%	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>
Freeze/thaw soundness AASHTO T103 ^[6] loss by weight						
dense	<=18%	<=18%	note ^[2]	—	—	note ^[3]
open-graded	<=18%	<=18%	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>
Liquid limit AASHTO T89	<=25	<=25	<=25	—	—	note ^[3]
Plasticity AASHTO T90	<=6 ^[4]	<=6 ^[4]	<=6 ^[4]	—	—	note ^[3]
Fracture ASTM D5821 ^[6] min one face by count						
dense	58%	58%	58%	—	note ^[5]	note ^[3]
open-graded	90%	90%	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>

^[1] The final aggregate blend must conform to the specified gradation.

^[2] No requirement for material taken from within the project limits. For material supplied from a source outside the project limits:

- LA wear maximum of 50 percent loss, by weight.
- Freeze thaw maximum of 42 percent loss, by weight.

^[3] Required as specified for the individual component materials defined in columns 2 - 6 of the table before blending.

^[4] For base placed between old and new pavements, use crushed stone, crushed gravel, or crushed concrete with a plasticity index of 3 or less.

^[5] >=75 percent by count of non-asphalt coated particles.

^[6] as modified in CMM 8-60.

450.2.2 Aggregate Sampling and Testing

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

- (1) The department and the contractor will sample and test according to the following methods, except as revised with the engineer's approval:
- | | |
|--|-------------|
| Sampling aggregates | AASHTO T2 |
| Material finer than No. 200 sieve | AASHTO T11 |
| Sieve analysis of aggregates | AASHTO T27 |
| Mechanical analysis of extracted aggregate | AASHTO T30 |
| Sieve analysis of mineral filler | AASHTO T37 |
| Los Angeles abrasion of coarse aggregate | AASHTO T96 |
| Freeze-thaw soundness of coarse aggregate ^[1] | AASHTO T103 |
| Sodium sulfate soundness of aggregates (R-4, 5 cycles) | AASHTO T104 |
| Extraction of bitumen | AASHTO T164 |

^[1] As modified in CMM 8-60.2.

450.3.2.6.3 Compaction Roller Pattern Determined by Growth Curve

Add 450.3.2.6.3 as a new subsection effective with the December 2019 letting:

450.3.2.6.3 Compaction Roller Pattern Determined by Growth Curve

- (1) Compact asphaltic mixture using the roller pattern established during construction of a control strip. Use 2 or more rollers per paver if placing more than 165 tons per hour.
- (2) On the first day of production, construct a control strip under the direct observation of department personnel. After compacting the control strip with a minimum of 3 passes, mark the gauge outline and take a one-minute wet density measurement using a nuclear density gauge in back scatter mode at a single location. Take a density measurement at the same location after each subsequent pass. Continue compacting and testing until the increase in density is less than 1 pcf for 3 consecutive passes. Submit the final roller pattern to the engineer in writing. Once the roller pattern is established do not change the pattern or decrease the number, type, or weight of rollers without the engineer's written approval.
- (3) After establishing the roller pattern, and under the direct observation of the engineer, cut at least one 4-inch diameter or larger core from the control strip density gauge outline. Prepare cores and determine density according to AASHTO T166. Dry cores after testing. Fill core holes and obtain engineer approval before opening to traffic. The department will maintain custody of cores throughout the entire sampling and testing process. The department will label cores, transport cores to testing facilities, witness testing, store dried cores, and provide subsequent verification testing.

450.3.2.8 Jointing

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

- (3) Construct notched wedge longitudinal joints for mainline paving of HMA layers 1.75 inches or greater. Extend the wedge beyond the normal lane width as the plans show or as the engineer directs.

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

- (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 or vibratory plate compactor the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.
- (6) Clean longitudinal and transverse joints coated with dust and, if necessary, paint with hot asphaltic material, a cutback, or emulsified asphalt to ensure a tightly bonded, sealed joint.

455.2.5 Tack Coat

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

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

460.2.2.3 Aggregate Gradation Master Range

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

- (1) Ensure that the aggregate blend, including recycled material and mineral filler, conforms to the gradation requirements in table 460-1. The values listed are design limits; production values may exceed those limits.

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm)	No. 2 (25.0 mm)	No. 3 (19.0 mm)	No. 4 (12.5 mm)	No. 5 (9.5 mm)	No. 6 (4.75 mm)	SMA No. 4 (12.5 mm)	SMA No. 5 (9.5 mm)
50.0-mm	100							
37.5-mm	90 - 100	100						
25.0-mm	90 max	90 - 100	100					
19.0-mm	___	90 max	90 - 100	100			100	
12.5-mm	___	___	90 max	90 - 100	100		90 - 97	100
9.5-mm	___	___	___	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm	___	___	___	___	90 max	90 - 100	25 - 35	35 - 45
2.36-mm	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm	___	___	___	___	___	30 - 55	___	___
0.60-mm	___	___	___	___	___	___	18 max	18 max
0.075-mm	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	6.0 - 13.0	8.0 - 11.0	8.0 - 12.0
% VMA	11.0 min	12.0 min	13.0 min	14.0 min ^[1]	15.0 min ^[2]	16.0 - 17.5	16.0 min	17.0 min

^[1] 14.5 for LT and MT mixes.

^[2] 15.5 for LT and MT mixes.

460.2.7 HMA Mixture Design

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

- (1) For each HMA mixture type used under the contract, develop and submit an asphaltic mixture design according to CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. Ensure that SMA mixture designs adhere to AASHTO R 46 and AASHTO M 325 in addition to the required test procedures outlined in CMM 8-66 table 1 and CMM 8-66 table 2. Determine the specific gravity of fines or super fines used as a mineral filler or additional stabilizer in SMA designs according to AASHTO T 100. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to the designer according to CMM 8-66.

TABLE 460-2 MIXTURE REQUIREMENTS

Mixture type	LT	MT	HT	SMA
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	35
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103 as modified in CMM 8-60.2) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821 as modified in CMM 860) (one face/2 face, % by count)	65/___	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40 ^[1]	43 ^[1]	45	45
Sand Equivalency (AASHTO T176, min)	40	40 ^[2]	45	50
Clay Lumps and Friable Particle in Aggregate (AASHTO T112)	<= 1%	<= 1%	<= 1%	<= 1%
Plasticity Index of Material Added to Mix Design as Mineral Filler (AASHTO T89/90)	<= 4	<= 4	<= 4	<= 4
Gyratory Compaction				
Gyrations for Nini	6	7	8	7
Gyrations for Ndes	40	75	100	65
Gyrations for Nmax	60	115	160	100
Air Voids, %Va (%Gmm Ndes)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.5 (95.5)
% Gmm Nini	<= 91.5 ^[3]	<= 89.0 ^[3]	<= 89.0	___
% Gmm Nmax	<= 98.0	<= 98.0	<= 98.0	<= 98.0
Dust to Binder Ratio ^[4] (% passing 0.075/Pbe)	0.6 - 1.2 ^[5]	0.6 - 1.2 ^[5]	0.6 - 1.2 ^[5]	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80 ^{[6] [8]}	65 - 75 ^{[6] [7] [9]}	65 - 75 ^{[6] [7] [9]}	70 - 80
Tensile Strength Ratio (TSR) (AASHTO T283) ^{[10] [11]}				
no antistripping additive	0.75 min	0.75 min	0.75 min	0.80 min
with antistripping additive	0.80 min	0.80 min	0.80 min	0.80 min
Draindown (AASHTO T305) (%)	___	___	___	<= 0.30
Minimum Effective Asphalt Content, Pbe (%)	___	___	___	5.5

^[1] For No 6 (4.75 mm) nominal maximum size mixes, the specified fine aggregate angularity is 43 for LT and 45 MT mixes.

^[2] For No 6 (4.75 mm) nominal maximum size mixes, the specified sand equivalency is 43 for MT mixes.

^[3] The percent maximum density at initial compaction is only a guideline.

^[4] For a gradation that passes below the boundaries of the caution zone (ref. AASHTO M323), the dust to binder ratio limits are 0.6 - 1.6.

^[5] For No 6 (4.75 mm) nominal maximum size mixes, the specified dust to binder ratio limits are 1.0 - 2.0 for LT mixes and 1.5 - 2.0 for MT and HT mixes.

^[6] For No. 6 (4.75mm) nominal maximum size mixes, the specified VFB is 67 - 79 percent for LT mixes and 66 - 77 percent for MT and HT mixes.

^[7] For No. 5 (9.5mm) and No. 4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76 percent.

^[8] For No. 2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[9] For No. 1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[10] WisDOT eliminates freeze-thaw conditioning cycles from the TSR test procedure.

^[11] Run TSR at asphalt content corresponding to 3.0% air void regressed design, or 4.5% air void design for SMA, using distilled water for testing.

460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater

Replace paragraph four with the following effective with the December 2019 letting:

- (4) Use the test methods identified below, or other methods the engineer approves, to perform the following tests at the frequency indicated:

Blended aggregate gradations:

Drum plants:

- Field extraction by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.
- Belt samples, optional for virgin mixtures, obtained from stopped belt or from the belt discharge using an engineer-approved sampling device and performed according to AASHTO T11 and T27.

Batch plants:

- Field extraction by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.

Asphalt content (AC) in percent:

AC by ignition oven according to AASHTO T308 (CMM 8-36.6.3.6), by chemical extraction according to AASHTO T-164 method A or B; or by automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.

Bulk specific gravity of the compacted mixture according to AASHTO T166.

Maximum specific gravity according to AASHTO T209.

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

VMA by calculation according to AASHTO R35.

460.2.8.2.1.4.2 Control Charts

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

- (1) Maintain standardized control charts at the laboratory. Record contractor test results on the charts the same day as testing. Record data on the standardized control charts as follows:
- Blended aggregate gradation tests in percent passing. Of the following, plot sieves required in table 460-1: 37.5-mm, 25.0-mm, 19.0-mm, 12.5-mm, 9.5-mm, 4.75-mm, 2.36-mm, 1.18-mm, 0.60-mm, and 0.075-mm.
 - Asphalt material content in percent.
 - Air voids in percent.
 - VMA in percent.
- (2) Plot both the individual test point and the running average of the last 4 data points on each chart. Show QC data in black with the running average in red. Draw the warning limits with a dashed green line and the JMF limits with a dashed red line. The contractor may use computer generated black-and-white printouts with a legend that clearly identifies the specified color-coded components.

460.2.8.2.1.5 Control Limits

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

- (1) Conform to the following control limits for the JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMITS	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0
4.75-mm	+/- 5.0	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
1.18-mm	+/- 4.0	+/- 3.0
0.60-mm	+/- 4.0	+/- 3.0
0.075-mm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	- 0.2
Air voids in percent ^[1]	+1.3/-1.0	+1.0/-0.7
VMA in percent ^[2]	- 0.5	- 0.2

^[1] For SMA, JMF limits are +/-1.3 and warning limits are +/-1.0.

^[2] For No. 6 (4.75mm) mixes, JMF limits are +/- 0.5 and warning limits are +/- 0.2.

460.3.2 Thickness

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

- (1) Provide the plan thickness for lower and upper layers limited as follows:

NOMINAL SIZE	MINIMUM LAYER THICKNESS (in inches)	MAX LOWER LAYER THICKNESS (in inches)	MAX UPPER LAYER THICKNESS (in inches)	MAX SINGLE LAYER THICKNESS ^[3] (in inches)
No. 1 (37.5 mm)	4.5	6	4.5	6
No. 2 (25.0 mm)	3.0	5	4	6
No. 3 (19.0 mm)	2.25	4	3	5
No. 4 (12.5 mm) ^[1]	1.75	3 ^[2]	2.5	4
No. 5 (9.5 mm) ^[1]	1.25	3 ^[2]	2	3
No. 6 (4.75 mm)	0.75	1.25	1.25	1.25

^[1] SMA mixtures use nominal size No. 4 (12.5 mm) or No. 5 (9.5 mm).

^[2] SMA mixtures with nominal sizes of No. 4 (12.5 mm) and No. 5 (9.5 mm) have no maximum lower layer thickness specified.

^[3] For use on cross-overs and shoulders.

- (2) Place leveling layers using No. 4 (12.5 mm), No. 5 (9.5 mm), or No. 6 (4.75 mm) mixtures. Leveling layers may be thinner than the minimum lower layer thickness for the mixture used.
- (3) Place wedging layers as the contract specifies or engineer directs. Wedging layers have no specified minimum or maximum thickness.

460.3.3.1 Minimum Required Density

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

- (1) Compact No. 6 mixtures in lower layers as specified in 450.3.2.6.2 and in upper layers as specified in 450.3.2.6.3. For other HMA mixtures, compact all layers to the density table 460-3 specifies.

TABLE 460-3 MINIMUM REQUIRED DENSITY^[1]

LOCATION	LAYER	PERCENT OF TARGET MAXIMUM DENSITY		
		MIXTURE TYPE		
		LT and MT	HT	SMA ^[5]
TRAFFIC LANES ^[2]	LOWER	93.0 ^[3]	93.0 ^[4]	—
	UPPER	93.0	93.0	93.0
SHOULDERS & APPURTENANCES	LOWER	91.0	91.0	—
	UPPER	92.0	92.0	92.0

^[1] The table values are for average lot density. If any individual density test result falls more than 3.0 percent below the minimum required target maximum density, the engineer will investigate the acceptability of that material according to CMM 8-15.11.

^[2] Includes side roads, crossovers, turn lanes, ramps, parking lanes, bike lanes, and park-and-ride lots as defined by the contract plans.

^[3] Minimum reduced by 2.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

^[4] Minimum reduced by 1.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

460.3.3.2 Pavement Density Determination

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

- (3) A lot is defined in CMM 8-15 and placed within a single layer for each location and target maximum density category indicated in table 460-3. The lot density is the average of all samples taken for that lot. The department determines the number of tests per lot according to CMM 8-15.

460.5.2.1 General

Replace paragraph six with the following effective with the December 2019 letting:

- (6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:
- Va less than 2.5 or greater than 6.5 percent for SMA, or for other mixes, less than 1.5 or greater than 5.0 percent.
 - VMA more than 1.0 percent below the minimum or above the maximum specified 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.

501.2.5.5 Sampling and Testing

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

- (1) Sample and test aggregates for concrete according to the following:

Sampling aggregates ^[1]	AASHTO T2
Lightweight pieces in aggregate	AASHTO T113
Material finer than No. 200 sieve ^[1]	AASHTO T11
Unit weight of aggregate	AASHTO T19
Organic impurities in sands	AASHTO T21
Sieve analysis of aggregates	AASHTO T27
Effect of organic impurities in fine aggregate	AASHTO T71
Los Angeles abrasion of coarse aggregate	AASHTO T96
Alkali Silica Reactivity of Aggregates	ASTM C1260
Alkali Silica Reactivity of Combinations of Cementitious Materials and Aggregates	ASTM C1567
Freeze-thaw soundness of coarse aggregate ^[1]	AASHTO T103
Sodium sulfate soundness of coarse aggregates (R-4, 5 cycles)	AASHTO T104
Specific gravity and absorption of fine aggregate	AASHTO T84
Specific gravity and absorption of coarse aggregate ^[1]	AASHTO T85
Flat & elongated pieces based on a 3:1 ratio ^[1]	ASTM D4791
Sampling fresh concrete	AASHTO R60
Making and curing concrete compressive strength test specimens	AASHTO T23
Compressive strength of molded concrete cylinders	AASHTO T22

^[1] As modified in CMM 8-60.

505.2.2 Bar Steel Reinforcement

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

- (1) Conform to AASHTO M31, type S or type W.

505.2.3 High-Strength Bar Steel Reinforcement

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

- (1) Conform to AASHTO M31, grade 60, type S or type W.

505.2.4.1 General

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

- (1) Conform to AASHTO M31, grade 60, type S or type W. Ensure that the coating is applied in a CRSI certified epoxy coating plant. Bend bars that require bending before coating, unless the fabricator can bend the bar without damaging the coating.

505.2.6.1 General

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

- (1) For dowel bars and straight tie bars, there is no requirement for bend tests. Ensure that the bars are the specified diameter and length the plans show.

505.2.6.2.2 Solid Dowel Bars

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

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

625.3.2 Processing Topsoil or Salvaged Topsoil

Delete paragraph four effective with the December 2019 letting.

701.3.1 General

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

- (1) Perform contract required QC tests for samples randomly located according to CMM 8-30. Use the test methods specified in table 701-1.

TABLE 701-1 TESTING AND CERTIFICATION STANDARDS

TEST	TEST STANDARD	MINIMUM REQUIRED CERTIFICATION (any one of the certifications listed for each test)
Random Sampling	CMM 8-30.9.2	Transportation Materials Sampling Technician (TMS) Aggregate Technician I (AGGTEC-I) AGGTEC-I Assistant Certified Technician (ACT-AGG) PCC Technician I (PCCTEC-I) PCCTEC-I Assistant Certified Technician (ACT-PCC) Grading Technician I (GRADINGTEC-I) Grading Assistant Certified Technician (ACT-GRADING)
Sampling Aggregates	AASHTO T2 ^{[1][4]}	TMS, AGGTEC-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11 ^[1]	AGGTEC-I, ACT-AGG
Fine and coarse aggregate gradation	AASHTO T27 ^[1]	
Aggregate moisture content	AASHTO T255 ^[1]	
Fractured faces	ASTM D5821 ^[1]	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Plasticity index	AASHTO T90 ^[3]	
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152 ^[2]	
Air void system of fresh concrete	AASHTO TP118 ^[5]	
Concrete slump	AASHTO T119 ^[2]	
Concrete temperature	ASTM C1064	
Making and curing concrete cylinders	AASHTO T23	
Moist curing for concrete cylinders	AASHTO M201	
Concrete compressive strength	AASHTO T22	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Concrete flexural strength	AASHTO T97	
Profiling	—	PROFILER

^[1] As modified in CMM 8-60.

^[2] As modified in CMM 8-70.

^[3] A plasticity check, if required under individual QMP provisions, may be performed by an AGGTEC-I in addition to the certifications listed for liquid limit and plasticity index tests.

^[4] Plant personnel may operate equipment to obtain samples under the direct observation of a TMS or higher.

^[5] Consolidate tests by rodding only.

715.2.1 General

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

- (5) For new lab-qualified mixes, test the air void system of the proposed concrete mix. Include the SAM number as a part of the mix design submittal.

715.3.1.1 General

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

- (2) Test the air void system at least once per lot and enter the SAM number in the MRS for information only. SAM testing is not required for the following:
- For lots with less than 4 sublots.
 - High early strength (HES) concrete.
 - Special high early strength (SHES) concrete.
 - Concrete placed under the following bid items:
 - Concrete Pavement Approach Slab
 - Concrete Masonry Culverts
 - Concrete Masonry Retaining Walls
 - Steel Grid Floor Concrete Filled
 - Crash Cushions Permanent
 - Crash Cushions Permanent Low Maintenance
 - Crash Cushions Temporary
-

730.3.1 General

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

- (3) Stockpile tests^[1] can be used for multiple projects. If placement on a project does not begin within 120 calendar days after the date the stockpile sample was obtained, retest the stockpile before placement begins.

^[1] Replace the stockpile test with an in-place production test for concrete pavement recycled and processed on-site; test on the first day of production.

730.3.2 Contractor QC Testing

Replace paragraph four with the following effective with the December 2019 letting:

- (4) Submit test results to the engineer within one business day of obtaining the sample, except any aggregate classification with recycled asphalt may be submitted within two business days.
-

730.3.4.1 Contractor QC Testing

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

- (1) For small quantity contracts with ≤ 500 tons, submit 2 production tests or 1 stockpile test. Production tests are valid for 3 years from the date the production sample was obtained. Begin placement within 3 years of the date sampled.
- (2) For small quantity contracts with ≤ 6000 tons and ≥ 500 tons, do the following:
1. Conduct one QC stockpile test before placement.
 2. Submit 2 production tests or conduct 1 loadout test instead of placement tests. Production tests are valid for 3 years from the date the production sample was obtained; the first day of placement must be within 3 years of the date sampled.
 3. If the actual quantity placed is more than 6000 tons, on the next day of placement perform one additional random QC test for each 3000 tons of overrun, or fraction thereof.
-

740.3.2 Contractor QC Testing

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

- (3) Field-locate the beginning and ending points for each profile run. Measure the profiles of each standard and partial segment. Define primary segments starting at a project terminus and running contiguously along the mainline to the other project terminus. Define segments one wheel path wide and distinguished by length as follows:
1. Standard segments are 500 feet long.
 2. Partial segments are less than 500 feet long.

Errata

614.3.6 Thrie Beam Structure Approach Retro Fits

Correct errata by deleting the galvanization reference already required under 614.3.1.

- (2) Install posts and drill holes into existing thrie beam conforming to 614.3.2.

628.3.7 Mobilizations for Erosion Control

Correct errata by clarifying that mobilizations for erosion control include proceeding with the work.

- (1) Move personnel, equipment, and materials to the project site and promptly proceed with construction of erosion control items at the stages the contract indicates or the engineer directs.

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>

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

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

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

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

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

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

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

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

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) 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;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Non-discrimination Provisions

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

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

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

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

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

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

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

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

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

Pertinent Non-Discrimination Authorities:

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

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

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

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>

Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) Agreement Clauses. "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) Contractor and Subcontractor Clauses. "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT**

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS
FOR PROJECTS WITH FEDERAL AID**

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work."
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

<https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf>

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx>

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

- a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

"General Decision Number: WI20190010 08/16/2019

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0	01/04/2019
1	02/22/2019
2	05/17/2019
3	07/26/2019
4	08/16/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 33.44	22.27
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BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 37.66	23.35
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BRWI0006-002 06/01/2018

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 34.30	21.41
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BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 34.82	22.59
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BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 38.03	22.55
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BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 33.44	22.27
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BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0034-002 06/01/2018		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016		

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016		

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
area bordering Michigan State Line), FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,
MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.
of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,
PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN,
ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

Rates	Fringes
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CARPENTER

CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
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Carpenters

Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON
COUNTIES

	Rates	Fringes
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CARPENTER.....	\$ 35.78	22.11
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CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
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CARPENTER.....	\$ 36.15	20.43
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CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
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PILEDRIVERMAN

Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	\$ 26.25	13.92

Low voltage construction, installation, maintenance and
removal of teledata facilities (voice, data, and video)
including outside plant, telephone and data inside wire,
interconnect, terminal equipment, central offices, PABX,
fiber optic cable and equipment, micro waves, V-SAT,
bypass, CATV, WAN (wide area networks), LAN (local area
networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2018

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 39.50	30%+11.32

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE
(East of a ine 6 miles West of the West boundary of Oconto
County), SHAWANO (Except Area North of Townships of Aniwa and
Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018		

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and
Emmet Townships), GREEN, LAKE (except Townships of Berlin,
Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of
Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016		

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern,
Florence and Homestead) AND MARINETTE COUNTY (Township of
Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018		

DOUGLAS COUNTY

Rates	Fringes
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Electricians:.....\$ 36.85 26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman,
Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON,
MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area
West of a line 6 miles West of the West boundary of Oconto
County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS
AND WOOD COUNTIES

Rates Fringes

Electricians:.....\$ 32.55 19.02

ELEC0430-002 06/01/2019

RACINE COUNTY (Except Burlington Township)

Rates Fringes

Electricians:.....\$ 40.30 22.04

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

Rates Fringes

Electricians:.....\$ 39.31 24.69

ELEC0494-006 06/01/2018

CALUMET (Township of New Holstein), DODGE (East of Hwy 26
including Chester Township), FOND DU LAC, MANITOWOC
(Schleswig), and SHEBOYGAN COUNTIES

Rates Fringes

Electricians:.....\$ 33.40 22.08

ELEC0494-013 06/01/2018

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2018

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,
RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/03/2019

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 41.17	23.03
Group 2.....	\$ 40.67	23.03
Group 3.....	\$ 40.17	23.03
Group 4.....	\$ 39.91	23.03
Group 5.....	\$ 39.62	23.03
Group 6.....	\$ 33.72	23.03

HAZARDOUS WASTE PREMIUMS:

EPA Level ""A"" protection - \$3.00 per hour

EPA Level ""B"" protection - \$2.00 per hour

EPA Level ""C"" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without
attachments with a lifting capacity of over 100 tons; or
cranes, tower cranes, and derricks with boom, leads and/or
jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete

proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/03/2018

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO
COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 32.98	27.47

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/03/2018

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.88	27.72

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2018

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST,
GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,
JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON,
MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern
area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA,

WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 35.00	25.22

IRON0498-005 06/01/2016		

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2018		

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.10	10.10

IRON0512-021 05/01/2018		

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.64	10.10

LABO0113-002 06/03/2019		

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		

Group 1.....	\$ 29.02	22.00
Group 2.....	\$ 29.17	22.00
Group 3.....	\$ 29.37	22.00
Group 4.....	\$ 29.52	22.00
Group 5.....	\$ 29.67	22.00
Group 6.....	\$ 25.51	22.00

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LAB00113-003 06/03/2019

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 28.27	22.00
Group 2.....	\$ 28.37	22.00
Group 3.....	\$ 28.42	22.00
Group 4.....	\$ 28.62	22.00
Group 5.....	\$ 28.47	22.00
Group 6.....	\$ 25.36	22.00

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LAB00113-011 06/03/2019

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 28.08	22.00
Group 2.....	\$ 28.23	22.00
Group 3.....	\$ 28.43	22.00
Group 4.....	\$ 28.40	22.00
Group 5.....	\$ 28.73	22.00
Group 6.....	\$ 25.22	22.00

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and

Utility Man); Batch Truck Dumper or Cement Handler;
 Bituminous worker (Dumper, Ironer, Smoother, and Tamper);
 Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
 (Pavement); Vibrator or Tamper Operator (Mechanical Hand
 Operated); Chain Saw Operator; Demolition Burning Torch
 Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
 (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

 LAB00140-002 06/03/2019

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT,
 CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,
 DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST,
 GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA,
 JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
 MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE,
 OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE,
 RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST.
 CROIX, TAYLOR, TREMPLEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN,
 WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.84	17.54
Group 2.....	\$ 32.94	17.54
Group 3.....	\$ 32.99	17.54
Group 4.....	\$ 33.19	17.54
Group 5.....	\$ 33.04	17.54
Group 6.....	\$ 29.47	17.54

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LAB00464-003 06/03/2019

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 33.12	17.54
Group 2.....	\$ 33.22	17.54
Group 3.....	\$ 33.27	17.54
Group 4.....	\$ 33.47	17.54
Group 5.....	\$ 33.32	17.54
Group 6.....	\$ 29.47	17.54

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);

Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 28.25	17.72

PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per
hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017		

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017		

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017		

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN

COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any

solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material,
etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an
interested party may appeal directly to the Administrative
Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

August 2018

NOTICE TO BIDDERS WAGE RATE DECISION

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

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

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

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

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



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Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0120 Clearing	659.000 ID	_____.	_____.
0004	201.0220 Grubbing	659.000 ID	_____.	_____.
0006	204.0100 Removing Pavement	22,643.000 SY	_____.	_____.
0008	204.0110 Removing Asphaltic Surface	7,640.000 SY	_____.	_____.
0010	204.0115 Removing Asphaltic Surface Butt Joints	150.000 SY	_____.	_____.
0012	204.0120 Removing Asphaltic Surface Milling	270.000 SY	_____.	_____.
0014	204.0140 Removing Gutter	56.000 LF	_____.	_____.
0016	204.0150 Removing Curb & Gutter	1,971.000 LF	_____.	_____.
0018	204.0155 Removing Concrete Sidewalk	2,536.000 SY	_____.	_____.
0020	204.0165 Removing Guardrail	8.000 LF	_____.	_____.
0022	204.0170 Removing Fence	1,463.000 LF	_____.	_____.
0024	204.0195 Removing Concrete Bases	78.000 EACH	_____.	_____.
0026	204.0210 Removing Manholes	12.000 EACH	_____.	_____.
0028	204.0220 Removing Inlets	39.000 EACH	_____.	_____.
0030	204.0245 Removing Storm Sewer (size) 01. 12-Inch	726.000 LF	_____.	_____.
0032	204.0245 Removing Storm Sewer (size) 02. 15-Inch	244.000 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0034	204.0245 Removing Storm Sewer (size) 03. 18-Inch	389.000 LF	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 04. 24-Inch	512.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 05. 30-Inch	1,105.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 06. 36-Inch	384.000 LF	_____.	_____.
0042	204.0250 Abandoning Manholes	1.000 EACH	_____.	_____.
0044	204.0260 Abandoning Inlets	1.000 EACH	_____.	_____.
0046	204.0291.S Abandoning Sewer	9.000 CY	_____.	_____.
0048	205.0100 Excavation Common	32,619.000 CY	_____.	_____.
0050	206.2000 Excavation for Structures Culverts (structure) 01. B-13-0870	LS	LUMP SUM	_____.
0052	210.2500 Backfill Structure Type B	7,345.000 TON	_____.	_____.
0054	213.0100 Finishing Roadway (project) 01. 5992-10-32	1.000 EACH	_____.	_____.
0056	213.0100 Finishing Roadway (project) 02. 5992-10-31	1.000 EACH	_____.	_____.
0058	305.0110 Base Aggregate Dense 3/4-Inch	191.000 TON	_____.	_____.
0060	305.0120 Base Aggregate Dense 1 1/4-Inch	29,821.000 TON	_____.	_____.
0062	305.0130 Base Aggregate Dense 3-Inch	19,310.000 TON	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	415.0090 Concrete Pavement 9-Inch	120.000 SY	_____.	_____.
0066	415.1090 Concrete Pavement HES 9-Inch	339.000 SY	_____.	_____.
0068	416.0170 Concrete Driveway 7-Inch	135.000 SY	_____.	_____.
0070	416.0610 Drilled Tie Bars	664.000 EACH	_____.	_____.
0072	416.0620 Drilled Dowel Bars	35.000 EACH	_____.	_____.
0074	450.4000 HMA Cold Weather Paving	2,636.000 TON	_____.	_____.
0076	455.0605 Tack Coat	3,321.000 GAL	_____.	_____.
0078	460.2000 Incentive Density HMA Pavement	5,710.000 DOL	1.00000	5,710.00
0080	460.4110.S Reheating HMA Pavement Longitudinal Joints	4,500.000 LF	_____.	_____.
0082	460.6223 HMA Pavement 3 MT 58-28 S	6,278.000 TON	_____.	_____.
0084	460.6424 HMA Pavement 4 MT 58-28 H	2,636.000 TON	_____.	_____.
0086	465.0105 Asphaltic Surface	925.000 TON	_____.	_____.
0088	465.0110 Asphaltic Surface Patching	10.000 TON	_____.	_____.
0090	465.0125 Asphaltic Surface Temporary	3,800.000 TON	_____.	_____.
0092	504.0100 Concrete Masonry Culverts	896.000 CY	_____.	_____.
0094	505.0400 Bar Steel Reinforcement HS Structures	158,390.000 LB	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0096	505.0600 Bar Steel Reinforcement HS Coated Structures	2,290.000 LB	_____.	_____.
0098	511.1200 Temporary Shoring (structure) 600. B-13-0870	3,300.000 SF	_____.	_____.
0100	511.2200 Temporary Shoring Left in Place (structure) 01. R-13-0338	150.000 SF	_____.	_____.
0102	511.2200 Temporary Shoring Left in Place (structure) 02. R-13-0341	4,030.000 SF	_____.	_____.
0104	516.0100 Dampproofing	875.000 SY	_____.	_____.
0106	516.0500 Rubberized Membrane Waterproofing	75.000 SY	_____.	_____.
0108	517.1015.S Concrete Staining Multi-Color (structure) 01. B-13-0870	5,900.000 SF	_____.	_____.
0110	517.1050.S Architectural Surface Treatment (structure) 01. B-13-0870	4,750.000 SF	_____.	_____.
0112	520.8000 Concrete Collars for Pipe	9.000 EACH	_____.	_____.
0114	522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	1.000 EACH	_____.	_____.
0116	601.0409 Concrete Curb & Gutter 30-Inch Type A	937.000 LF	_____.	_____.
0118	601.0411 Concrete Curb & Gutter 30-Inch Type D	235.000 LF	_____.	_____.
0120	601.0600 Concrete Curb Pedestrian	193.000 LF	_____.	_____.
0122	602.0410 Concrete Sidewalk 5-Inch	15,790.000 SF	_____.	_____.
0124	602.0420 Concrete Sidewalk 7-Inch	3,790.000 SF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0126	602.0515 Curb Ramp Detectable Warning Field Natural Patina	352.000 SF	_____.	_____.
0128	603.8000 Concrete Barrier Temporary Precast Delivered	1,259.000 LF	_____.	_____.
0130	603.8125 Concrete Barrier Temporary Precast Installed	1,259.000 LF	_____.	_____.
0132	606.0300 Riprap Heavy	23.000 CY	_____.	_____.
0134	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	356.000 LF	_____.	_____.
0136	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	1,003.000 LF	_____.	_____.
0138	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	205.000 LF	_____.	_____.
0140	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	665.000 LF	_____.	_____.
0142	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	40.000 LF	_____.	_____.
0144	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	576.000 LF	_____.	_____.
0146	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	402.000 LF	_____.	_____.
0148	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	59.000 LF	_____.	_____.
0150	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	8.000 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0152	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	318.000 LF	_____.	_____.
0154	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	465.000 LF	_____.	_____.
0156	611.0420 Reconstructing Manholes	2.000 EACH	_____.	_____.
0158	611.0430 Reconstructing Inlets	3.000 EACH	_____.	_____.
0160	611.0606 Inlet Covers Type B	1.000 EACH	_____.	_____.
0162	611.0609 Inlet Covers Type B-A	3.000 EACH	_____.	_____.
0164	611.0612 Inlet Covers Type C	2.000 EACH	_____.	_____.
0166	611.0642 Inlet Covers Type MS	1.000 EACH	_____.	_____.
0168	611.0666 Inlet Covers Type Z	6.000 EACH	_____.	_____.
0170	611.2004 Manholes 4-FT Diameter	1.000 EACH	_____.	_____.
0172	611.2005 Manholes 5-FT Diameter	4.000 EACH	_____.	_____.
0174	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.	_____.
0176	611.2066 Manholes 6x6-FT	6.000 EACH	_____.	_____.
0178	611.3003 Inlets 3-FT Diameter	8.000 EACH	_____.	_____.
0180	611.3004 Inlets 4-FT Diameter	11.000 EACH	_____.	_____.
0182	611.3220 Inlets 2x2-FT	1.000 EACH	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0184	611.3230 Inlets 2x3-FT	18.000 EACH	_____.	_____.
0186	611.3901 Inlets Median 1 Grate	1.000 EACH	_____.	_____.
0188	611.8120.S Cover Plates Temporary	17.000 EACH	_____.	_____.
0190	611.9710 Salvaged Inlet Covers	6.000 EACH	_____.	_____.
0192	611.9800.S Pipe Grates 01. STA 221+55 NB	1.000 EACH	_____.	_____.
0194	612.0406 Pipe Underdrain Wrapped 6-Inch	2,780.000 LF	_____.	_____.
0196	614.2300 MGS Guardrail 3	107.000 LF	_____.	_____.
0198	614.2620 MGS Guardrail Terminal Type 2	1.000 EACH	_____.	_____.
0200	616.0206 Fence Chain Link 6-FT	1,343.000 LF	_____.	_____.
0202	616.0700.S Fence Safety	3,100.000 LF	_____.	_____.
0204	618.0100 Maintenance And Repair of Haul Roads (project) 01. 5992-10-31	1.000 EACH	_____.	_____.
0206	618.0100 Maintenance And Repair of Haul Roads (project) 02. 5992-10-32	1.000 EACH	_____.	_____.
0208	619.1000 Mobilization	1.000 EACH	_____.	_____.
0210	620.0200 Concrete Median Blunt Nose	79.000 SF	_____.	_____.
0212	620.0300 Concrete Median Sloped Nose	741.000 SF	_____.	_____.
0214	621.0100 Landmark Reference Monuments	2.000 EACH	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0216	623.0200 Dust Control Surface Treatment	35,400.000 SY	_____.	_____.
0218	624.0100 Water	371.000 MGAL	_____.	_____.
0220	627.0200 Mulching	790.000 SY	_____.	_____.
0222	628.1504 Silt Fence	4,100.000 LF	_____.	_____.
0224	628.1520 Silt Fence Maintenance	4,100.000 LF	_____.	_____.
0226	628.1905 Mobilizations Erosion Control	12.000 EACH	_____.	_____.
0228	628.1910 Mobilizations Emergency Erosion Control	12.000 EACH	_____.	_____.
0230	628.2006 Erosion Mat Urban Class I Type A	9,700.000 SY	_____.	_____.
0232	628.7005 Inlet Protection Type A	54.000 EACH	_____.	_____.
0234	628.7015 Inlet Protection Type C	28.000 EACH	_____.	_____.
0236	628.7020 Inlet Protection Type D	33.000 EACH	_____.	_____.
0238	628.7504 Temporary Ditch Checks	20.000 LF	_____.	_____.
0240	628.7560 Tracking Pads	10.000 EACH	_____.	_____.
0242	629.0210 Fertilizer Type B	7.800 CWT	_____.	_____.
0244	630.0130 Seeding Mixture No. 30	66.000 LB	_____.	_____.
0246	630.0140 Seeding Mixture No. 40	158.000 LB	_____.	_____.
0248	630.0200 Seeding Temporary	66.000 LB	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0250	630.0500 Seed Water	300.000 MGAL	_____.	_____.
0252	631.0300 Sod Water	160.000 MGAL	_____.	_____.
0254	631.1000 Sod Lawn	6,100.000 SY	_____.	_____.
0256	634.0612 Posts Wood 4x6-Inch X 12-FT	1.000 EACH	_____.	_____.
0258	634.0620 Posts Wood 4x6-Inch X 20-FT	5.000 EACH	_____.	_____.
0260	637.1220 Signs Type I Reflective SH	371.000 SF	_____.	_____.
0262	637.2210 Signs Type II Reflective H	352.740 SF	_____.	_____.
0264	637.2215 Signs Type II Reflective H Folding	6.250 SF	_____.	_____.
0266	637.2230 Signs Type II Reflective F	54.000 SF	_____.	_____.
0268	638.2102 Moving Signs Type II	15.000 EACH	_____.	_____.
0270	638.2602 Removing Signs Type II	90.000 EACH	_____.	_____.
0272	638.3000 Removing Small Sign Supports	26.000 EACH	_____.	_____.
0274	638.4000 Moving Small Sign Supports	3.000 EACH	_____.	_____.
0276	641.1200 Sign Bridge Cantilevered (structure) 10. S-13-0516	LS	LUMP SUM	_____.
0278	641.1200 Sign Bridge Cantilevered (structure) 14. S-13-0522	LS	LUMP SUM	_____.
0280	641.1200 Sign Bridge Cantilevered (structure) 15. S-13-0523	LS	LUMP SUM	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0282	641.1200 Sign Bridge Cantilevered (structure) 16. S-13-0525	LS	LUMP SUM	_____.
0284	641.1200 Sign Bridge Cantilevered (structure) 17. S-13-0526	LS	LUMP SUM	_____.
0286	641.1200 Sign Bridge Cantilevered (structure) 18. S-13-0527	LS	LUMP SUM	_____.
0288	641.1200 Sign Bridge Cantilevered (structure) 19. S-13-0528	LS	LUMP SUM	_____.
0290	641.8100 Overhead Sign Support (structure) 08. S-13-0514	LS	LUMP SUM	_____.
0292	641.8100 Overhead Sign Support (structure) 09. S-13-0515	LS	LUMP SUM	_____.
0294	641.8100 Overhead Sign Support (structure) 11. S-13-0517	LS	LUMP SUM	_____.
0296	641.8100 Overhead Sign Support (structure) 12. S-13-0518	LS	LUMP SUM	_____.
0298	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0300	643.0300 Traffic Control Drums	58,400.000 DAY	_____.	_____.
0302	643.0410 Traffic Control Barricades Type II	4,000.000 DAY	_____.	_____.
0304	643.0420 Traffic Control Barricades Type III	7,100.000 DAY	_____.	_____.
0306	643.0500 Traffic Control Flexible Tubular Marker Posts	670.000 EACH	_____.	_____.
0308	643.0600 Traffic Control Flexible Tubular Marker Bases	670.000 EACH	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0310	643.0705 Traffic Control Warning Lights Type A	10,800.000 DAY	_____.	_____.
0312	643.0715 Traffic Control Warning Lights Type C	3,600.000 DAY	_____.	_____.
0314	643.0800 Traffic Control Arrow Boards	1,300.000 DAY	_____.	_____.
0316	643.0900 Traffic Control Signs	50,800.000 DAY	_____.	_____.
0318	643.0920 Traffic Control Covering Signs Type II	9.000 EACH	_____.	_____.
0320	643.1000 Traffic Control Signs Fixed Message	179.000 SF	_____.	_____.
0322	643.1050 Traffic Control Signs PCMS	940.000 DAY	_____.	_____.
0324	643.1070 Traffic Control Cones 42-Inch	340.000 DAY	_____.	_____.
0326	643.5000 Traffic Control	2.000 EACH	_____.	_____.
0328	644.1810 Temporary Pedestrian Barricade	3,800.000 LF	_____.	_____.
0330	645.0105 Geotextile Type C	990.000 SY	_____.	_____.
0332	645.0120 Geotextile Type HR	58.000 SY	_____.	_____.
0334	646.1020 Marking Line Epoxy 4-Inch	1,206.000 LF	_____.	_____.
0336	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	900.000 LF	_____.	_____.
0338	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	50.000 LF	_____.	_____.
0340	646.3020 Marking Line Epoxy 8-Inch	4,553.000 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0342	646.3555 Marking Line Grooved Contrast Permanent Tape 8-Inch	922.000 LF	_____.	_____.
0344	646.5020 Marking Arrow Epoxy	14.000 EACH	_____.	_____.
0346	646.5120 Marking Word Epoxy	11.000 EACH	_____.	_____.
0348	646.6120 Marking Stop Line Epoxy 18-Inch	54.000 LF	_____.	_____.
0350	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,703.000 LF	_____.	_____.
0352	646.8120 Marking Curb Epoxy	194.000 LF	_____.	_____.
0354	646.8220 Marking Island Nose Epoxy	10.000 EACH	_____.	_____.
0356	646.9000 Marking Removal Line 4-Inch	11,698.000 LF	_____.	_____.
0358	646.9010 Marking Removal Line Water Blasting 4-Inch	1,259.000 LF	_____.	_____.
0360	646.9100 Marking Removal Line 8-Inch	2,736.000 LF	_____.	_____.
0362	646.9110 Marking Removal Line Water Blasting 8-Inch	1,033.000 LF	_____.	_____.
0364	646.9200 Marking Removal Line Wide	460.000 LF	_____.	_____.
0366	646.9210 Marking Removal Line Water Blasting Wide	48.000 LF	_____.	_____.
0368	646.9300 Marking Removal Special Marking	4.000 EACH	_____.	_____.
0370	646.9310 Marking Removal Special Marking Water Blasting	13.000 EACH	_____.	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0372	649.0105 Temporary Marking Line Paint 4-Inch	46,358.000 LF	_____.	_____.
0374	649.0150 Temporary Marking Line Removable Tape 4-Inch	1,352.000 LF	_____.	_____.
0376	649.0205 Temporary Marking Line Paint 8-Inch	11,049.000 LF	_____.	_____.
0378	649.0250 Temporary Marking Line Removable Tape 8-Inch	321.000 LF	_____.	_____.
0380	649.0505 Temporary Marking Arrow Paint	11.000 EACH	_____.	_____.
0382	649.0550 Temporary Marking Arrow Removable Tape	3.000 EACH	_____.	_____.
0384	649.0605 Temporary Marking Word Paint	11.000 EACH	_____.	_____.
0386	649.0650 Temporary Marking Word Removable Tape	2.000 EACH	_____.	_____.
0388	649.0805 Temporary Marking Stop Line Paint 18-Inch	1,414.000 LF	_____.	_____.
0390	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	82.000 LF	_____.	_____.
0392	650.4000 Construction Staking Storm Sewer	60.000 EACH	_____.	_____.
0394	650.4500 Construction Staking Subgrade	10,700.000 LF	_____.	_____.
0396	650.5000 Construction Staking Base	10,700.000 LF	_____.	_____.
0398	650.5500 Construction Staking Curb Gutter and Curb & Gutter	11,383.000 LF	_____.	_____.
0400	650.6500 Construction Staking Structure Layout (structure) 01. B-13-0870	LS	LUMP SUM	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0402	650.6500 Construction Staking Structure Layout (structure) 02. R-13-0338	LS	LUMP SUM	_____.
0404	650.6500 Construction Staking Structure Layout (structure) 03. R-13-0339	LS	LUMP SUM	_____.
0406	650.6500 Construction Staking Structure Layout (structure) 04. R-13-0340	LS	LUMP SUM	_____.
0408	650.6500 Construction Staking Structure Layout (structure) 05. R-13-0341	LS	LUMP SUM	_____.
0410	650.6500 Construction Staking Structure Layout (structure) 06. R-13-0342	LS	LUMP SUM	_____.
0412	650.6500 Construction Staking Structure Layout (structure) 07. R-13-0343	LS	LUMP SUM	_____.
0414	650.6500 Construction Staking Structure Layout (structure) 08. S-13-0514	LS	LUMP SUM	_____.
0416	650.6500 Construction Staking Structure Layout (structure) 09. S-13-0515	LS	LUMP SUM	_____.
0418	650.6500 Construction Staking Structure Layout (structure) 10. S-13-0516	LS	LUMP SUM	_____.
0420	650.6500 Construction Staking Structure Layout (structure) 11. S-13-0517	LS	LUMP SUM	_____.
0422	650.6500 Construction Staking Structure Layout (structure) 12. S-13-0518	LS	LUMP SUM	_____.
0424	650.6500 Construction Staking Structure Layout (structure) 14. S-13-0522	LS	LUMP SUM	_____.
0426	650.6500 Construction Staking Structure Layout (structure) 15. S-13-0523	LS	LUMP SUM	_____.



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Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0428	650.6500 Construction Staking Structure Layout (structure) 16. S-13-0525	LS	LUMP SUM	_____.
0430	650.6500 Construction Staking Structure Layout (structure) 17. S-13-0526	LS	LUMP SUM	_____.
0432	650.6500 Construction Staking Structure Layout (structure) 18. S-13-0527	LS	LUMP SUM	_____.
0434	650.6500 Construction Staking Structure Layout (structure) 19. S-13-0528	LS	LUMP SUM	_____.
0436	650.7000 Construction Staking Concrete Pavement	267.000 LF	_____.	_____.
0438	650.8500 Construction Staking Electrical Installations (project) 01. 5992-10-31	LS	LUMP SUM	_____.
0440	650.8500 Construction Staking Electrical Installations (project) 01. 5992-10-32	LS	LUMP SUM	_____.
0442	650.9000 Construction Staking Curb Ramps	25.000 EACH	_____.	_____.
0444	650.9910 Construction Staking Supplemental Control (project) 01. 5992-10-31	LS	LUMP SUM	_____.
0446	650.9910 Construction Staking Supplemental Control (project) 02. 5992-10-32	LS	LUMP SUM	_____.
0448	650.9920 Construction Staking Slope Stakes	10,103.000 LF	_____.	_____.
0450	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	7,940.000 LF	_____.	_____.
0452	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	6,948.000 LF	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0454	652.0325 Conduit Rigid Nonmetallic Schedule 80 2-Inch	1,405.000 LF	_____.	_____.
0456	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	2,945.000 LF	_____.	_____.
0458	652.0605 Conduit Special 2-Inch	100.000 LF	_____.	_____.
0460	652.0615 Conduit Special 3-Inch	200.000 LF	_____.	_____.
0462	652.0800 Conduit Loop Detector	2,880.000 LF	_____.	_____.
0464	653.0164 Pull Boxes Non-Conductive 24x42-Inch	20.000 EACH	_____.	_____.
0466	653.0208 Junction Boxes 8x8x8-Inch	8.000 EACH	_____.	_____.
0468	653.0905 Removing Pull Boxes	24.000 EACH	_____.	_____.
0470	654.0110 Concrete Bases Type 10	3.000 EACH	_____.	_____.
0472	654.0113 Concrete Bases Type 13	3.000 EACH	_____.	_____.
0474	655.0230 Cable Traffic Signal 5-14 AWG	5,080.000 LF	_____.	_____.
0476	655.0240 Cable Traffic Signal 7-14 AWG	2,905.000 LF	_____.	_____.
0478	655.0250 Cable Traffic Signal 9-14 AWG	1,070.000 LF	_____.	_____.
0480	655.0260 Cable Traffic Signal 12-14 AWG	2,910.000 LF	_____.	_____.
0482	655.0525 Electrical Wire Traffic Signals 6 AWG	1,510.000 LF	_____.	_____.
0484	655.0615 Electrical Wire Lighting 10 AWG	5,280.000 LF	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0486	655.0620 Electrical Wire Lighting 8 AWG	10,962.000 LF	_____.	_____.
0488	655.0625 Electrical Wire Lighting 6 AWG	32,886.000 LF	_____.	_____.
0490	655.0700 Loop Detector Lead In Cable	2,900.000 LF	_____.	_____.
0492	655.0800 Loop Detector Wire	7,915.000 LF	_____.	_____.
0494	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. 209+21.85	LS	LUMP SUM	_____.
0496	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. 225+39.46 NB	LS	LUMP SUM	_____.
0498	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. 218+14.39	LS	LUMP SUM	_____.
0500	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. 208+65.57	LS	LUMP SUM	_____.
0502	657.0100 Pedestal Bases	17.000 EACH	_____.	_____.
0504	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	51.000 EACH	_____.	_____.
0506	657.0345 Poles Type 9	3.000 EACH	_____.	_____.
0508	657.0355 Poles Type 12	3.000 EACH	_____.	_____.
0510	657.0420 Traffic Signal Standards Aluminum 13-FT	17.000 EACH	_____.	_____.
0512	657.0530 Monotube Arms 30-FT	3.000 EACH	_____.	_____.
0514	657.0535 Monotube Arms 35-FT	3.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0516	657.0810 Luminaire Arms Steel 10-FT	42.000 EACH	_____.	_____.
0518	658.0173 Traffic Signal Face 3S 12-Inch	57.000 EACH	_____.	_____.
0520	658.0174 Traffic Signal Face 4S 12-Inch	6.000 EACH	_____.	_____.
0522	658.0416 Pedestrian Signal Face 16-Inch	26.000 EACH	_____.	_____.
0524	658.0500 Pedestrian Push Buttons	20.000 EACH	_____.	_____.
0526	658.5069 Signal Mounting Hardware (location) 01. 225+39.64 NB	LS	LUMP SUM	_____.
0528	658.5069 Signal Mounting Hardware (location) 02. 218+14.39 NB	LS	LUMP SUM	_____.
0530	658.5069 Signal Mounting Hardware (location) 03. 208+74.39 NB	LS	LUMP SUM	_____.
0532	659.1115 Luminaires Utility LED A	46.000 EACH	_____.	_____.
0534	659.1120 Luminaires Utility LED B	4.000 EACH	_____.	_____.
0536	678.0072 Install Fiber Optic Cable Outdoor Plant 72-CT	5,608.000 LF	_____.	_____.
0538	690.0150 Sawing Asphalt	8,051.000 LF	_____.	_____.
0540	690.0250 Sawing Concrete	13,045.000 LF	_____.	_____.
0542	715.0415 Incentive Strength Concrete Pavement	500.000 DOL	1.00000	500.00
0544	715.0502 Incentive Strength Concrete Structures	5,376.000 DOL	1.00000	5,376.00
0546	740.0440 Incentive IRI Ride	6,570.000 DOL	1.00000	6,570.00



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0548	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	600.000 HRS	5.00000	3,000.00
0550	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	600.000 HRS	5.00000	3,000.00
0552	SPV.0035 Special 450. Removal of Excess Amounts of Boulders For Water Main Installation	115.000 CY	_____.	_____.
0554	SPV.0045 Special 001. Temporary Crosswalk Access North & East Legs Odana Road	290.000 DAY	_____.	_____.
0556	SPV.0045 Special 002. Temporary Crosswalk Access North Leg Gammon Place	290.000 DAY	_____.	_____.
0558	SPV.0060 Special 001. Root Pruning Existing Terrace Trees	14.000 EACH	_____.	_____.
0560	SPV.0060 Special 002. Precast Sign Post Base	23.000 EACH	_____.	_____.
0562	SPV.0060 Special 100. Temporary Drainage Cover for Existing Inlet or Manhole	6.000 EACH	_____.	_____.
0564	SPV.0060 Special 101. Temporary Drainage Cover for Proposed Inlet or Manhole	13.000 EACH	_____.	_____.
0566	SPV.0060 Special 102. Temporarily Drain Between Existing SS Pipe & Proposed SS Pipe	9.000 EACH	_____.	_____.
0568	SPV.0060 Special 103. Temporarily Drain Between Existing SS Pipe & Proposed SS Structure	3.000 EACH	_____.	_____.
0570	SPV.0060 Special 104. Temporary Inlet Connection to Existing Storm Sewer Pipe	2.000 EACH	_____.	_____.
0572	SPV.0060 Special 105. Inlets 5-FT Diameter	5.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0574	SPV.0060 Special 106. Inlets 6x6-FT	1.000 EACH	_____.	_____.
0576	SPV.0060 Special 107. Private Storm Sewer Reconnect	4.000 EACH	_____.	_____.
0578	SPV.0060 Special 108. Manhole Covers Type J Special	12.000 EACH	_____.	_____.
0580	SPV.0060 Special 109. Inlet Covers Type H Special	32.000 EACH	_____.	_____.
0582	SPV.0060 Special 250. Install City Provided Sign	10.000 EACH	_____.	_____.
0584	SPV.0060 Special 251. Sign Post Base for Concrete Installation	2.000 EACH	_____.	_____.
0586	SPV.0060 Special 300. Special Marking Arrow Epoxy	29.000 EACH	_____.	_____.
0588	SPV.0060 Special 301. Special Marking Word Epoxy	14.000 EACH	_____.	_____.
0590	SPV.0060 Special 350. Electrical Pullbox Type I	15.000 EACH	_____.	_____.
0592	SPV.0060 Special 351. Electrical Pullbox Type III	12.000 EACH	_____.	_____.
0594	SPV.0060 Special 352. Electrical Pullbox Type V	24.000 EACH	_____.	_____.
0596	SPV.0060 Special 353. Electrical Pullbox Type VII	5.000 EACH	_____.	_____.
0598	SPV.0060 Special 354. Concrete Bases Type G	17.000 EACH	_____.	_____.
0600	SPV.0060 Special 355. Concrete Bases Type LB-2	11.000 EACH	_____.	_____.
0602	SPV.0060 Special 356. Concrete Bases Type LB-3	41.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0604	SPV.0060 Special 357. Concrete Bases Type LB-8	10.000 EACH	_____.	_____.
0606	SPV.0060 Special 358. Concrete Bases Type M	2.000 EACH	_____.	_____.
0608	SPV.0060 Special 359. Concrete Bases Type P	2.000 EACH	_____.	_____.
0610	SPV.0060 Special 360. Concrete Bases Offset	2.000 EACH	_____.	_____.
0612	SPV.0060 Special 368. Pole 20-Foot, 11 Gauge, Black, Double Fixture	1.000 EACH	_____.	_____.
0614	SPV.0060 Special 369. Pole 20-Foot, 7 Gauge	9.000 EACH	_____.	_____.
0616	SPV.0060 Special 370. Pole 30-Foot, 7 Gauge Single Simplex	1.000 EACH	_____.	_____.
0618	SPV.0060 Special 371. Pole 30-Foot, 11 Gauge Single Simplex	40.000 EACH	_____.	_____.
0620	SPV.0060 Special 372. Pole 20-Foot, 11 Gauge, Black, Single Fixture	10.000 EACH	_____.	_____.
0622	SPV.0060 Special 373. Pole 30-Foot, 11 Gauge, Black, Twin Simplex	1.000 EACH	_____.	_____.
0624	SPV.0060 Special 374. Luminaires Path and Mounting Bracket	11.000 EACH	_____.	_____.
0626	SPV.0060 Special 375. Traffic Signal Trombone Arms Aluminum 22-Foot	3.000 EACH	_____.	_____.
0628	SPV.0060 Special 376. Traffic Signal Trombone Arms Aluminum 18-Foot	2.000 EACH	_____.	_____.
0630	SPV.0060 Special 377. Trombone Arms 15-FT	5.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0632	SPV.0060 Special 378. Traffic Signal Control Cabinet	2.000 EACH	_____.	_____.
0634	SPV.0060 Special 380. Lighting Control Cabinet	2.000 EACH	_____.	_____.
0636	SPV.0060 Special 400. Malfunction Management Unit (MMU)	2.000 EACH	_____.	_____.
0638	SPV.0060 Special 401. Traffic Signal Ethernet Switch	2.000 EACH	_____.	_____.
0640	SPV.0060 Special 402. Backplates Signal Face, 3-Section 12-Inch)	57.000 EACH	_____.	_____.
0642	SPV.0060 Special 403. Backplates Signal Face, 4-Section 12-Inch)	6.000 EACH	_____.	_____.
0644	SPV.0060 Special 404. Luminaires Underpass LED 80W	14.000 EACH	_____.	_____.
0646	SPV.0060 Special 405. Luminaires Underpass LED 160W	8.000 EACH	_____.	_____.
0648	SPV.0060 Special 407. Traffic Signal Controller	2.000 EACH	_____.	_____.
0650	SPV.0060 Special 450. Furnish and Install 16-Inch Water Valve	1.000 EACH	_____.	_____.
0652	SPV.0060 Special 451. Cut-In Or Connect To Existing Water System	2.000 EACH	_____.	_____.
0654	SPV.0060 Special 452. Adjust Water Valve Box Sections	30.000 EACH	_____.	_____.
0656	SPV.0060 Special 500. Adjust MMSD SAS Special	1.000 EACH	_____.	_____.
0658	SPV.0060 Special 550. Utility Line Opening (ULO)	30.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0660	SPV.0060 Special 650. Fluid Thermal Backfill	3.000 EACH	_____.	_____.
0662	SPV.0090 Special 001. Concrete Curb & Gutter 18-Inch Type D Special	801.000 LF	_____.	_____.
0664	SPV.0090 Special 002. Concrete Curb & Gutter 24-Inch Type A Special	361.000 LF	_____.	_____.
0666	SPV.0090 Special 003. Concrete Curb & Gutter 24-Inch Type D Special	3,870.000 LF	_____.	_____.
0668	SPV.0090 Special 004. Concrete Gutter 24-Inch Type D Special	521.000 LF	_____.	_____.
0670	SPV.0090 Special 005. Concrete Curb & Gutter 30-Inch Type D Special	4,465.000 LF	_____.	_____.
0672	SPV.0090 Special 006. Asphaltic Curb Temporary	1,100.000 LF	_____.	_____.
0674	SPV.0090 Special 007. Construction Staking Bike Path	4,382.000 LF	_____.	_____.
0676	SPV.0090 Special 250. Sign Post	102.000 LF	_____.	_____.
0678	SPV.0090 Special 251. Reflective Sign Post	171.000 LF	_____.	_____.
0680	SPV.0090 Special 300. Marking Line Epoxy 6-Inch	2,091.000 LF	_____.	_____.
0682	SPV.0090 Special 301. Marking Stop Line Epoxy 24-Inch	471.000 LF	_____.	_____.
0684	SPV.0090 Special 352. Electrical Wire Lighting, 14-3 Grounded	3,264.000 LF	_____.	_____.
0686	SPV.0090 Special 450. Furnish and Install 16-Inch Pipe & Fittings	90.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0688	SPV.0090 Special 451. Furnish and Install 2-Inch Foam Board Insulation	120.000 LF	_____.	_____.
0690	SPV.0090 Special 600. Railing Steel B-13-0870	53.000 LF	_____.	_____.
0692	SPV.0090 Special 650. Railing Steel R-13-0338	96.000 LF	_____.	_____.
0694	SPV.0090 Special 651. Railing Steel R-13-0339	293.000 LF	_____.	_____.
0696	SPV.0090 Special 652. Railing Steel R-13-0340	288.000 LF	_____.	_____.
0698	SPV.0090 Special 653. Railing Steel R-13-0341	303.000 LF	_____.	_____.
0700	SPV.0090 Special 654. Railing Steel R-13-0342	678.000 LF	_____.	_____.
0702	SPV.0090 Special 655. Railing Steel R-13-0343	490.000 LF	_____.	_____.
0704	SPV.0105 Special 002. Temporary Bus Stop Access Substages 1B & 1C	LS	LUMP SUM	_____.
0706	SPV.0105 Special 003. Temporary Bus Stop Access Substages 1D & 1E	LS	LUMP SUM	_____.
0708	SPV.0105 Special 004. Temporary Bus Stop Access Substages 2A, 2B, & 2C	LS	LUMP SUM	_____.
0710	SPV.0105 Special 005. Temporary Bus Stop Access Substage 2D	LS	LUMP SUM	_____.
0712	SPV.0105 Special 006. Project Dewatering (ID 5992-10-31)	LS	LUMP SUM	_____.
0714	SPV.0105 Special 007. Project Dewatering (ID 5992-10-32)	LS	LUMP SUM	_____.
0716	SPV.0105 Special 008. Project Dewatering (ID 5992-10-33)	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0718	SPV.0105 Special 100. Temp Movable SS Trunkline Drainage Conduit Connected & Sealed At Ends	LS	LUMP SUM	_____.
0720	SPV.0105 Special 101. Temp Drain Existing Inlet To Prop Inlet, STA 222+60'NB' to STA 222+25'NB'	LS	LUMP SUM	_____.
0722	SPV.0105 Special 102. Temporary Inlet Connection To Existing Inlet STA 207+11'NB'	LS	LUMP SUM	_____.
0724	SPV.0105 Special 103. Temporary Inlet Connection To Existing and Proposed SS Pipe STA 224+81'NB'	LS	LUMP SUM	_____.
0726	SPV.0105 Special 104. Storm Sewer Tap	LS	LUMP SUM	_____.
0728	SPV.0105 Special 350. Street Light Removal	LS	LUMP SUM	_____.
0730	SPV.0105 Special 351. Temporary Lighting	LS	LUMP SUM	_____.
0732	SPV.0105 Special 400. Temporary Vehicle Detection (Gammon Rd - Gammon Pl)	LS	LUMP SUM	_____.
0734	SPV.0105 Special 401. Temporary Vehicle Detection (Gammon Road - Odana Road)	LS	LUMP SUM	_____.
0736	SPV.0105 Special 402. Temporary Vehicle Detection (Gammon Rd - WB Beltline Ramp)	LS	LUMP SUM	_____.
0738	SPV.0105 Special 403. Temporary Traffic Signals (Gammon Road - Gammon Pl)	LS	LUMP SUM	_____.
0740	SPV.0105 Special 404. Temporary Traffic Signals (Gammon Road - Odana Rd)	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0742	SPV.0105 Special 405. Temporary Traffic Signals (Gammon Road - WB Beltline Ramp)	LS	LUMP SUM	_____.
0744	SPV.0105 Special 406. Traffic Signal Removal	LS	LUMP SUM	_____.
0746	SPV.0105 Special 407. Optical Signal Preempt	LS	LUMP SUM	_____.
0748	SPV.0105 Special 450. Construction Staking Water Main	LS	LUMP SUM	_____.
0750	SPV.0105 Special 500. Construction Staking Sanitary Sewer	LS	LUMP SUM	_____.
0752	SPV.0105 Special 700. Overhead Sign Structure Removal (S-13-3063)	LS	LUMP SUM	_____.
0754	SPV.0105 Special 701. Overhead Sign Structure Removal (S-13-3064)	LS	LUMP SUM	_____.
0756	SPV.0105 Special 702. Overhead Sign Structure Removal (S-13-3065)	LS	LUMP SUM	_____.
0758	SPV.0105 Special 703. Overhead Sign Structure Removal (S-13-3066)	LS	LUMP SUM	_____.
0760	SPV.0105 Special 704. Overhead Sign Structure Removal (S-13-3067)	LS	LUMP SUM	_____.
0762	SPV.0105 Special 705. Overhead Sign Structure Removal (S-13-3068)	LS	LUMP SUM	_____.
0764	SPV.0105 Special 706. Overhead Sign Structure Removal (S-13-3069)	LS	LUMP SUM	_____.
0766	SPV.0165 Special 001. Colored Crosswalk Green	2,520.000 SF	_____.	_____.
0768	SPV.0165 Special 650. Wall Modular Block Gravity R-13-0341	3,545.000 SF	_____.	_____.



Proposal Schedule of Items

Page 27 of 27

Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, 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
0770	SPV.0165 Special 651. Wall Modular Block Gravity R-13-0343	2,290.000 SF	_____.	_____.
0772	SPV.0165 Special 652. Wall Modular Block Mechanically Stabilized Earth R-13-0338	1,075.000 SF	_____.	_____.
0774	SPV.0165 Special 653. Wall Modular Block Mechanically Stabilized Earth R-13-0339	2,410.000 SF	_____.	_____.
0776	SPV.0165 Special 654. Wall Modular Block Mechanically Stabilized Earth R-13-0340	2,330.000 SF	_____.	_____.
0778	SPV.0165 Special 655. Wall Modular Block Mechanically Stabilized Earth R-13-0342	3,675.000 SF	_____.	_____.
0780	SPV.0180 Special 001. Architectural Concrete Pavement 5-Inch	3,870.000 SY	_____.	_____.
0782	SPV.0180 Special 002. Topsoil Special	15,800.000 SY	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

PLEASE ATTACH SCHEDULE OF ITEMS HERE



Wisconsin Department of Transportation

December 3, 2019

**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

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of December 10, 2019

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 01, 05 – 08, 11 – 13, 15, 17, 19, 22 – 25, 27 – 31, 33, 34, 36, 37, 40, and 41; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in proposals 05 and 17. These wage rates are effective for all proposals they are included in in the December 10, 2019 letting. The updated wage rates are dated November 29, 2019 and are effective on or after December 9, 2019.

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

"General Decision Number: WI20190010 11/29/2019

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019
2	05/17/2019
3	07/26/2019
4	08/16/2019
5	11/08/2019
6	11/15/2019
7	11/22/2019
8	11/29/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
area bordering Michigan State Line), FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,
MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.
of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,
PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN,

ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010	06/01/2016	

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003	06/01/2016	

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON
COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004	05/01/2018	

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001	06/01/2016	

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 06/03/2019

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 35.59	20.87

ELEC0014-007 06/03/2019

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	\$ 27.25	14.34

Low voltage construction, installation, maintenance and
removal of teledata facilities (voice, data, and video)
including outside plant, telephone and data inside wire,
interconnect, terminal equipment, central offices, PABX,
fiber optic cable and equipment, micro waves, V-SAT,
bypass, CATV, WAN (wide area networks), LAN (local area
networks), and ISDN (integrated systems digital network).

* ELEC0127-002 06/01/2019

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 40.49	30%+12.07

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE
(East of a ine 6 miles West of the West boundary of Oconto
County), SHAWANO (Except Area North of Townships of Aniwa and
Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2019

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and
Emmet Townships), GREEN, LAKE (except Townships of Berlin,
Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of
Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 40.30	22.24

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern,
Florence and Homestead) AND MARINETTE COUNTY (Township of
Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

ELEC0430-002 06/01/2019

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 40.30	22.04

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2019

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.15	28.50%+10.00

ELEC0890-003 06/01/2019

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,
 RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 35.91	25.95%+10.83

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/03/2019

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 41.17	23.03
Group 2.....	\$ 40.67	23.03
Group 3.....	\$ 40.17	23.03
Group 4.....	\$ 39.91	23.03
Group 5.....	\$ 39.62	23.03
Group 6.....	\$ 33.72	23.03

HAZARDOUS WASTE PREMIUMS:

EPA Level ""A"" protection - \$3.00 per hour

EPA Level ""B"" protection - \$2.00 per hour

EPA Level ""C"" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber

tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/03/2018

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 32.98	27.47

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/03/2018

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.88	27.72

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2018

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST,
GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,
JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON,
MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern
area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA,
WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 35.00	25.22

IRON0498-005 06/01/2019		

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 40.25	40.53

IRON0512-008 05/01/2018		

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.10	10.10

IRON0512-021 05/01/2018		

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.64	10.10

LAB00113-002 06/03/2019		

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 29.02	22.00
Group 2.....	\$ 29.17	22.00
Group 3.....	\$ 29.37	22.00
Group 4.....	\$ 29.52	22.00
Group 5.....	\$ 29.67	22.00
Group 6.....	\$ 25.51	22.00

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LAB00113-003 06/03/2019

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		

Group 1.....	\$ 28.27	22.00
Group 2.....	\$ 28.37	22.00
Group 3.....	\$ 28.42	22.00
Group 4.....	\$ 28.62	22.00
Group 5.....	\$ 28.47	22.00
Group 6.....	\$ 25.36	22.00

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LAB00113-011 06/03/2019

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 28.08	22.00
Group 2.....	\$ 28.23	22.00
Group 3.....	\$ 28.43	22.00
Group 4.....	\$ 28.40	22.00
Group 5.....	\$ 28.73	22.00
Group 6.....	\$ 25.22	22.00

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LAB00140-002 06/03/2019

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.84	17.54
Group 2.....	\$ 32.94	17.54
Group 3.....	\$ 32.99	17.54

Group 4.....	\$ 33.19	17.54
Group 5.....	\$ 33.04	17.54
Group 6.....	\$ 29.47	17.54

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator, Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LAB00464-003 06/03/2019

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 33.12	17.54
Group 2.....	\$ 33.22	17.54
Group 3.....	\$ 33.27	17.54
Group 4.....	\$ 33.47	17.54
Group 5.....	\$ 33.32	17.54
Group 6.....	\$ 29.47	17.54

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 33.74	18.95

Spray & Sandblast.....	\$ 34.74	18.95
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PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
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PAINTER.....	\$ 24.11	12.15
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PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
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PAINTER.....	\$ 22.03	12.45
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PAIN0781-002 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
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Painters:

Bridge.....	\$ 31.60	23.51
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Brush.....	\$ 31.55	23.51
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Spray & Sandblast.....	\$ 32.30	23.51
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PAIN0802-002 06/01/2017

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
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PAINTER

Brush.....	\$ 28.25	17.72
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PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51

Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2019

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 29.57	22.03
3 or more Axles; Euclids		
Dumptor & Articulated,		
Truck Mechanic.....	\$ 29.72	22.03

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example:

PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

"General Decision Number: WI20190008 11/29/2019

Superseded General Decision Number: WI20180008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0	01/04/2019
1	02/22/2019
2	05/17/2019
3	07/26/2019
4	11/08/2019
5	11/15/2019
6	11/22/2019
7	11/29/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018		

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018		

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018		

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

BRWI0009-001 06/01/2018		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0011-002 06/01/2018		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0013-002 06/01/2018		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

BRWI0019-002 06/01/2018		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0021-002 06/01/2018		

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.24	22.15

BRWI0034-002 06/01/2018		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
area bordering Michigan State Line), FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,
MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.
of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,
PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN,
ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON
COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILED RIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

CARP2337-003 06/01/2016

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 29.98	21.53
Zone B.....	\$ 29.98	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/03/2019

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 35.59	20.87

* ELEC0127-002 06/01/2019

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 40.49	30%+12.07

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE
(East of a line 6 miles West of the West boundary of Oconto
County), SHAWANO (Except Area North of Townships of Aniwa and
Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2019

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and
Emmet Townships), GREEN, LAKE (except Townships of Berlin,
Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of
Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 40.30	22.24

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

ELEC0430-002 06/01/2019

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 40.30	22.04

 ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

 ELEC0494-006 06/01/2018

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

 ELEC0577-003 06/01/2019

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.15	28.50%+10.00

 ELEC0890-003 06/01/2019

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
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Electricians:.....\$ 35.91 25.95%+10.83

ENGI0139-003 06/03/2019

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 41.52	22.45
Group 2.....	\$ 40.27	22.45
Group 3.....	\$ 38.97	22.45
Group 4.....	\$ 38.44	22.45
Group 5.....	\$ 36.37	22.45
Group 6.....	\$ 34.84	22.45

HAZARDOUS WASTE PREMIUMS:

EPA Level ""A"" Protection: \$3.00 per hour

EPA Level ""B"" Protection: \$2.00 per hour

EPA Level ""C"" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator;

Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

* ENGI0139-007 06/03/2019

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE,
RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 41.19	22.20
Group 2.....	\$ 40.41	22.20
Group 3.....	\$ 39.46	22.20
Group 4.....	\$ 38.41	22.20
Group 5.....	\$ 37.01	22.20

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour

EPA Level "B" Protection: \$2.00 per hour

EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and/or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator; Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (14S or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket; Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame andWinch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress Machines; Skid Steer Loader with or without attachments; Boiler operators (temporary heat); Forklift, 12 ft and under; Screed Operator Milling Machine; Refrigeration Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound Driver and Extractor; Generators under 150 KW; Combination small equipment operator; Compressors under 400 CFM; Welding Machines; Heaters, Mechanical; Pumps; Winches, Small Electric; Oiler and Greaser; Conveyor; High pressure utility locating machine (daylighting machine).

IRON0008-002 06/03/2018

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 32.98	27.47

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/03/2018

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.88	27.72

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2018

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST,
GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,
JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON,
MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern
area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA,
WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 35.00	25.22

IRON0498-005 06/01/2019

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 40.25	40.53

IRON0512-008 05/01/2018

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.10	10.10

IRON0512-021 05/01/2018

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.64	10.10

LABO0113-004 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 15.11	20.65
Group 2.....	\$ 17.38	20.65
Group 3.....	\$ 20.92	20.65
Group 4.....	\$ 30.29	20.65
Group 5.....	\$ 30.43	20.65
Group 6.....	\$ 30.49	20.65
Group 7.....	\$ 32.70	20.65
Group 8.....	\$ 35.52	20.65
Group 9.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc;
Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner;
Pipe Layer; Rock Driller and Joint Man; Timber Man and
Concrete Brusher; Bracer in Trench Behind Machine & Tight
Sheeting; Concrete Formsetter and Shoveler; Jackhammer
Operator

GROUP 9: Blaster

LAB00113-005 06/04/2018

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 21.78	20.65
Group 2.....	\$ 27.71	20.65
Group 3.....	\$ 30.27	20.65
Group 4.....	\$ 32.04	20.65

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30
lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation,
Wire Mesh and Reinforcement, Concrete Worker, Form
Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form
Setting, Patch Finisher, Bottom Man, Joint Sawyer, Gunnite
Man, Manhole Builder, Welder-Torchman, Blaster, Caulker,
Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher,
Raker and Luteman, Hydraulic Jacking of Shields, Shield
Drivers, Mining Machine, Lock Tenders, Mucking Machine

Operator, Motor Men & Gauge Tenders and operation of
incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LAB00113-008 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 30.49	20.65
Group 4.....	\$ 32.70	20.65
Group 5.....	\$ 32.84	20.65
Group 6.....	\$ 35.52	20.65
Group 7.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner;
Mining Machine; Welder; Rock Driller; Concrete Buster; Jack
Hammer Operator; Caisson Worker; Pipelayer and Joint Man;
Bracerman

GROUP 7: Blaster

* LAB00113-009 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

Rates Fringes

Laborers: (Tunnel -

*COMPRESSED AIR 0 - 15 lbs.)

Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 33.24	20.65
Group 4.....	\$ 34.04	20.65
Group 5.....	\$ 34.16	20.65
Group 6.....	\$ 36.86	20.65
Group 7.....	\$ 37.48	20.65

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add \$2.00 to all classifications

*Compressed Air over 30 lbs add \$3.00 to all classifications

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder &
Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack
Hammer Operator; Caisson Worker; Pielayer and Joint Man;
Bracerman; Nozzle Man on Gunite; Timber Man; Concrete
Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add \$0.15 per hour.

LAB00140-005 06/04/2018

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE,
FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA,
JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE,

LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK,
PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER,
SHAWANO, SHEBOYGAN, TAYLOR, TREMPPEALEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1.....	\$ 27.41	17.20
Group 2.....	\$ 29.26	17.20
Group 3.....	\$ 29.46	17.20
Group 4.....	\$ 30.21	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00,
15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form
Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB00464-002 06/04/2018

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.31	17.20

Group 2.....	\$ 29.51	17.20
Group 3.....	\$ 29.71	17.20
Group 4.....	\$ 30.46	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add \$1.00, 15- 30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawyer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB01091-010 06/04/2018

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 27.10	17.20
Group 2.....	\$ 29.16	17.20
Group 3.....	\$ 29.36	17.20
Group 4.....	\$ 30.11	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper;
Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Dirvers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2019

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 29.57	22.03
3 or more Axles; Euclids		
Dumptor & Articulated,		
Truck Mechanic.....	\$ 29.72	22.03

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that

classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"



Wisconsin Department of Transportation

November 19, 2019

Division of Transportation Systems Development

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

NOTICE TO ALL CONTRACTORS:

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

Proposal #06: 5992-10-31, WISC 2019 771
City of Madison, Gammon Road
W Twn Mall to Grand Canyon Dr
Local Street
Dane County

5992-10-32, WISC 2019 772
City of Madison, Gammon Road
USH 12 to Mineral Point Rd
Local Street
Dane County

5992-10-33
City of Madison, Gammon Road
USH 12 to Mineral Point Road
Local Street
Dane County

Letting of December 10, 2019

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

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
519	Structure B-13-870 - Railing Steel Details (Railing Revisions)
524	Structure R-13-338 - Railing Details (Railing Revisions)
529	Structure R-13-339 - Railing Details (Railing Revisions)
534	Structure R-13-340 - Railing Details (Railing Revisions)
539	Structure R-13-341 - Railing Details (Railing Revisions)
545	Structure R-13-342 - Railing Details (Railing Revisions)
551	Structure R-13-343 - Railing Details (Railing Revisions)

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 519, 524, 529, 534, 539, 545 and 551.

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

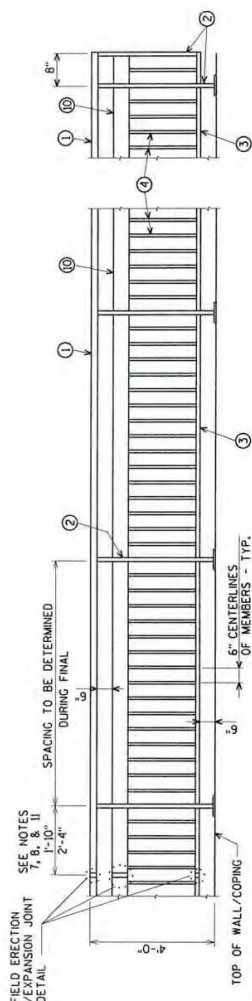
Sincerely,

Mike Coleman

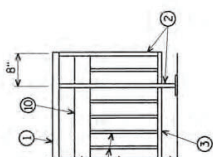
Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

- ① 2 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.
- ② TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF ALL B, HOLD A501 OR A500 GRADE B PLATE TO POST VERTICAL AND BASE PLATE TO BASE PLATE TOGETHER.
- ③ TS 1 1/2" x 1 1/2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.



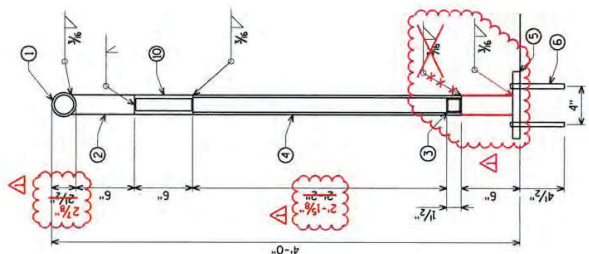
END SECTION



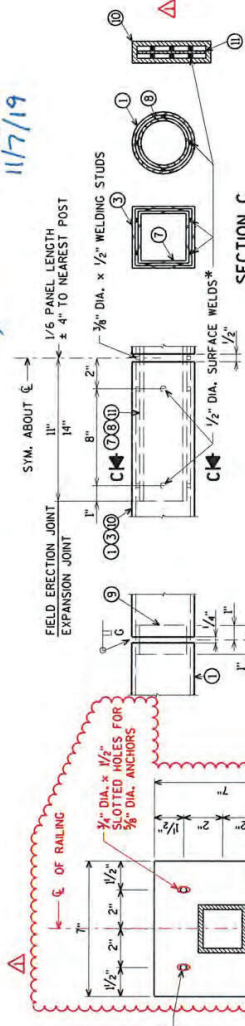
Addendum No. 01
ID 5992-10-31
Revised Sheet 524
November 19, 2019

BID ITEM SHALL BE "RAILING STEEL R-13-338", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING. RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS. POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

William C. Dechen ^{SOR}
11/08/19



SECTION THRU RAILING STEEL



SECTION C

FIELD ERECTION
JOINT DETAIL

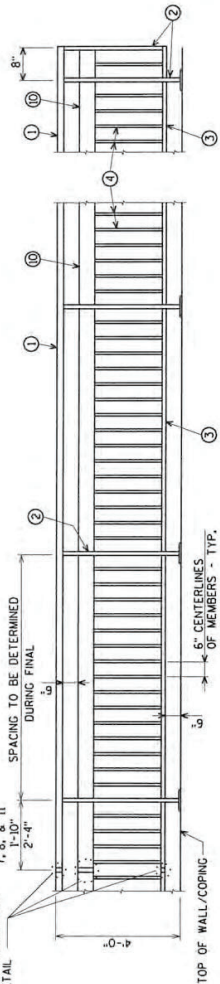
*MIN. 5/8" FLAT SURFACE DIA.
PUNCHES OR STUDS MAY
BE USED AS AN ALTERNATE.

SHOP RAIL
SPLICE DETAIL

(LOCATION MUST BE SHOWN
ON THE SHOP DRAWINGS)

	11/19	RAILING REVISIONS	AYRES
	NO.	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE R-13-338			
GRAIN (BY CL/S/S)		PLANS G.C.	KLW
RAILING		SHEET 4 OF 5	
DETAILS		524	

FIELD ERECTION
/EXPANSION JOINT
DETAIL



TOP OF WALL/COPING

PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

- 1 2 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.
- 2 TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, CUT BOTTOM OF POST TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER.
- 3 TS 1/2" x 1/2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- 4 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.
- 5 BASE PLATE 1/2" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 7/16" HOLES FOR THE BOLTS NO. 6.
- 6 3/4" DIA. x 1/2" SLOTTED HOLES FOR ANCHOR WELD TO NO. 2 AS SHOWN.
- 7 SQUARE SLEEVE FABRICATED FROM 1/2" COLD-DRAWN STEEL-ALLOY CONFORMING TO ASTM A333-1 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" x 1/2" SURFACE WELDS ON ALL SIDES TO FIELD JOINTS. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- 8 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- 9 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".
- 10 TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- 11 1" x 6" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 10. PROVIDE 3/8" x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.



3/4" DIA. x 1/2" SLOTTED HOLES FOR ANCHOR WELD TO NO. 2 AS SHOWN.



1/2" PLATES CONFORMING TO ASTM DESIGNATION A709 GRADE 36

Addendum No. 01
ID 5992-10-32
Revised Sheet 529
November 19, 2019

William C. Dehn
11/08/19



GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-339", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING. RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS. POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH FREE FROM WARP AND ALL SURFACES SMOOTH. ALL SURFACES VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

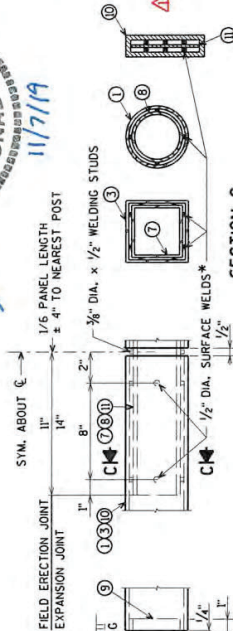
VERTICAL MEMBERS SHALL BE PLUMB.

HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED THE COAT AND TOPCOAT.

RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).

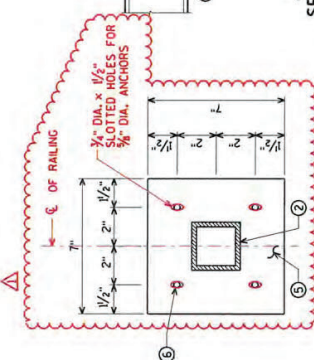
CURVE RAILING TO MATCH WALL ALIGNMENT.



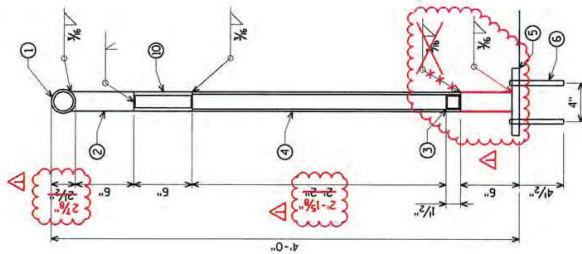
SECTION C

FIELD ERECTION JOINT DETAIL

*MIN. 3/4" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



RAILING BASE PLATE



SECTION THRU RAILING STEEL

ORIGINAL PLANS PREPARED BY
3433 Oakwood Hills Parkway
Eau Claire, WI 54601
www.ayresassociates.com

AYRES
ASSOCIATES

RAILING
DETAILS

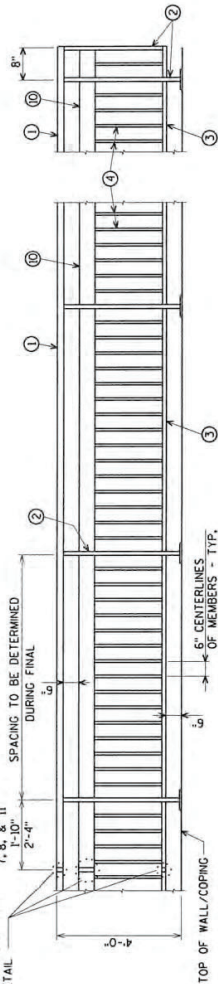
529

STRUCTURE R-13-339

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

NO.	DATE	REVISION	BY
1	11/19	RAILING REVISIONS	AYRES

FIELD ERECTION
/EXPANSION JOINT
DETAIL



PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

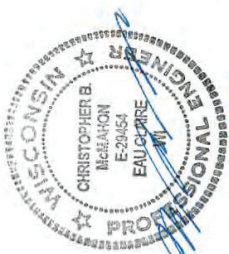
- 1 2 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.
- 2 TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, CUT BOTTOM OF POST TO 1/2" BELOW TOP OF BASE PLATE. ALL SURFACES TO BE WELDED TOGETHER.
- 3 TS 1/2" x 1/2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- 4 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A307 GRADE 36.
- 5 BASE PLATE 1/2" x 7" x 7" CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, CUT BOTTOM OF POST TO 1/2" BELOW TOP OF BASE PLATE. ALL SURFACES TO BE WELDED TOGETHER.
- 6 3/4" DIA. x 1/2" SLOTTED HOLES FOR ANCHOR WELD TO NO. 2 AS SHOWN.
- 7 SQUARE SLEEVE FABRICATED FROM 1/2" x 2" x 2" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" x 1/2" SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 1/2" x 1/2" SURFACE WELDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- 8 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" x 1/2" SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 1/2" x 1/2" SURFACE WELDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- 9 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".
- 10 TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- 11 1/2" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" x 1/2" SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 1/2" x 1/2" SURFACE WELDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

3/4" DIA. x 1/2" SLOTTED HOLES FOR ANCHOR WELD TO NO. 2 AS SHOWN.

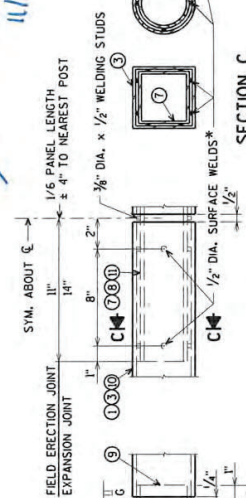
1/2" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" x 1/2" SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 1/2" x 1/2" SURFACE WELDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

William C. Dehn
11/08/19

Addendum No. 01
ID 5992-10-31
Revised Sheet 534
November 19, 2019

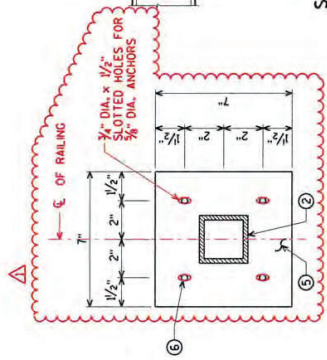


11/7/19

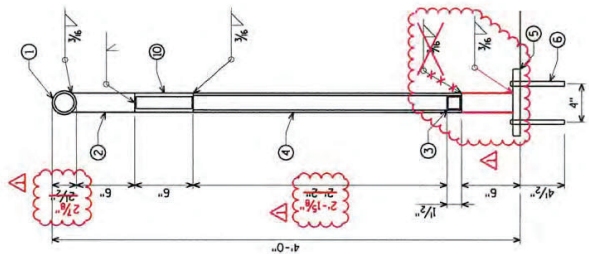


FIELD ERECTION JOINT DETAIL

*MIN. 3/4" FLAT SURFACE DIA. PLUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE. (LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



RAILING BASE PLATE



SECTION THRU RAILING STEEL

GENERAL NOTES

- BIO ITEM SHALL BE "RAILING STEEL R-13-340", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING. RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
- POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES ROUNDED. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.
- "VERTICAL MEMBERS SHALL BE PLUMB.
- HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.
- PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.
- RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).
- CURVE RAILING TO MATCH WALL ALIGNMENT.

NO.	DATE	REVISION	BY
11/19		RAILING REVISIONS	ATRES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
STRUCTURE R-13-340

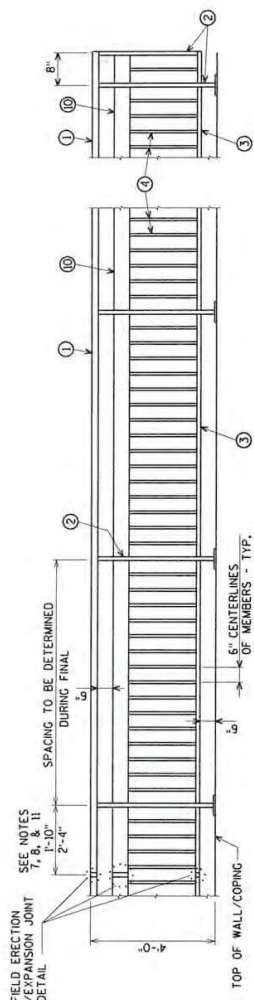
RAILING DETAILS
534

ORIGINAL PLANS PREPARED BY
3433 Oakwood Hills Parkway
Eau Claire, WI 54601
www.AyresAssociates.com



LEGEND

2. $\frac{1}{8}$ " DIA. STEEL PIPE CONFORMING TO SECTION S06 OF THE STANDARD SPECIFICATIONS.
3. $15\ 2'' \times 2'' \times .088$ " STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL, HOLD $\frac{1}{4}$ " ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.
4. $1\ 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times .088$ " STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
5. $1'' \times 1'$ T BAR CONFORMING TO ASTM DESIGNATION ATOS GRADE 36.



PART ELEVATION OF RAILING STEEL

END SECTION

- 5 BASE PLATE $\frac{1}{2}$ " x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 50, WITH 4" x 1" HOLES FOR HEK BOLTS NO. 6, WELD TO NO. 2 AS SHOWN.
- 6 CONCRETE MASONRY ANCHORS, TYPE S, $\frac{3}{8}$ ", PULLOUT STRENGTH SHALL BE 3.6 KIPS.
- 7 SOURCE SLEEVE FABRICATED FROM $\frac{1}{2}$ " OD, 10" I.D. STEEL, LONGER THAN 10" LONG AT FIELD JOINTS. PROVIDE $\frac{1}{2}$ " x SURFACE WELDING ALL SIDES AS SHOWN, GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE $\frac{3}{8}$ " DIA. x $\frac{1}{2}$ " WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- 8 $\frac{1}{4}$ " DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS, 7" DIA. LONG, EXPANSION JOINTS AND TOP SURFACE FIELD JOINTS. PROVIDE $\frac{1}{2}$ " DIA. SURFACE WELDS ON ALL SIDES AS SHOWN, GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE $\frac{3}{8}$ " DIA. x $\frac{1}{2}$ " WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- 9 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS, PROVIDE "SLIDING FIT".
- 10 TS 5" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- 11 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 50, 2" x 4" LONG AT EXPANSION JOINTS AND 10" LONG AT FIELD JOINTS. PROVIDE $\frac{1}{2}$ " x SURFACE WELDING ALL SIDES AS SHOWN, GRIND WELDS TO FIT FREE INTO I.D. OF NO. 10. PROVIDE $\frac{3}{8}$ " x $\frac{1}{2}$ " WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BOB ITEM SHALL BE "RALING STEEL R-13-341", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING. RALING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

HORIZONTAL MEMBERS SHALL BE PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

TRAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).

CURVE RAILING TO MATCH WALL ALIGNMENT.

NO.	DATE	RAILING REVISIONS	AYRES
		REVISION	BY

STRUCTURE R-13-341

PLANS	CK'D	KI W
DRAWN	CL S/7SS	
BY		

RAILING
DETAILS

539

AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

INDEX

DATE _____

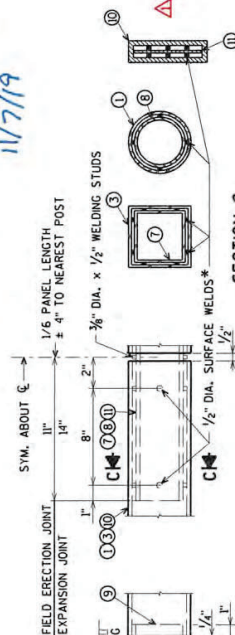
Addendum No. 01
ID 5992-10-31
Revised Sheet 539
November 19, 2019

William C. Decher SDR

11/08/19



11/7/19

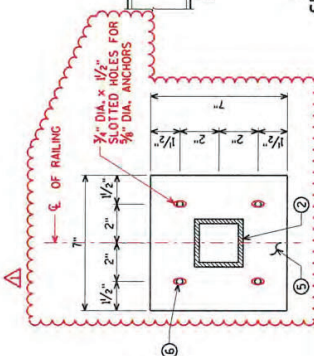


FIELD ERECTION
JOINT DETAIL

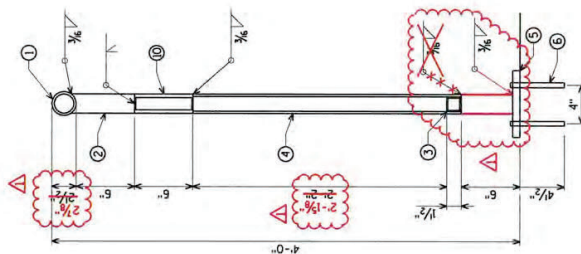
*MIN. 5/8" FLAT SURFACE DIA.
PUNCHINGS OR STUDS MAY
BE USED AS AN ALTERNATE.

SHOP RAIL
SPlice DETAIL

LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)

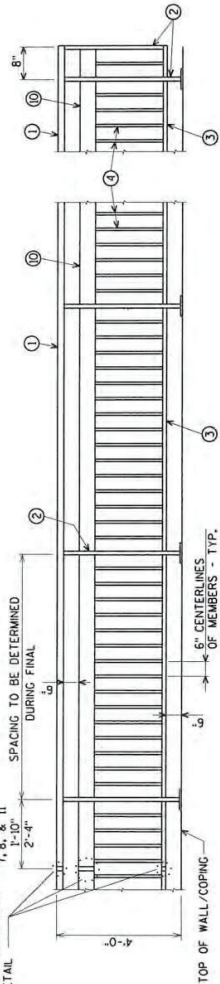


RAILING BASE PLATE



SECTION THRU RAILING STEEL

FIELD ERECTION
/EXPANSION JOINT
DETAIL



PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

- ① 2 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.
- ② TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, CUT 1" BOTTOM OF POST TO ALLOW FOR FIELD ERECTION JOINT. BASE PLATE TO BE WELDED TO ALLOW POST TO BE WELDED TOGETHER.
- ③ TS 1/2" x 1/2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- ④ 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.
- ⑤ BASE PLATE 1/2" x 1/2" x 1/2" CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B, WITH 1/2" HOLES FOR NEW BOLTS NO. 6.
- ⑥ 3/4" DIA. x 1/2" SLOTTED HOLES FOR ANCHOR WELD TO NO. 2 AS SHOWN.
- ⑦ CONCRETE MASONRY ANCHORS, TYPE S, 3/8", PULLOUT STRENGTH SHALL BE 35 KIPS.
- ⑧ SQUARE SLEEVE FABRICATED FROM 1/2" COLD-DRAWN STEEL-ALLOY-STEEL CONFORMING TO ASTM-A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES TO FIT FREE INTO ID. OF NO. 10. PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- ⑨ 1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO ID. OF NO. 10. PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- ⑩ 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".
- ⑪ TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- ⑫ 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO ID. OF NO. 10. PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

△

3/4" DIA. x 1/2" SLOTTED HOLES FOR ANCHOR WELD TO NO. 2 AS SHOWN.

△

1/2" PLATES CONFORMING TO ASTM DESIGNATION A709 GRADE 36

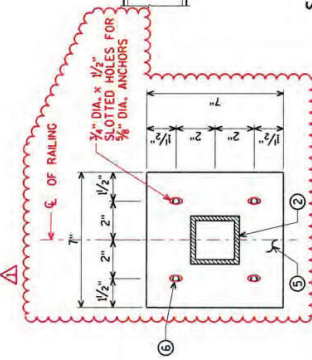
Addendum No. 01
ID 5992-10-31
Revised Sheet 551
November 19, 2019

William C. Dehn

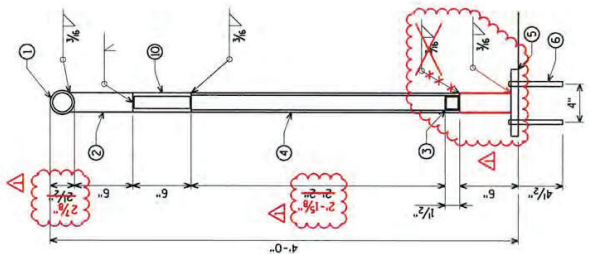
11/08/19



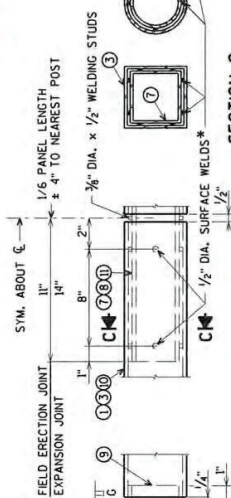
11/7/19



RAILING BASE PLATE

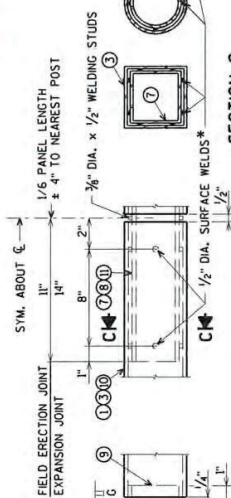


SECTION THRU RAILING STEEL



FIELD ERECTION JOINT DETAIL

*MIN. 3/4" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SHOP RAIL SPLICE DETAIL

LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-343", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING. RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS. POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FINISHED WITH EPOXY. ALL SURFACES SHALL BE MACHINE FLAME CUT. ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).

CURVE RAILING TO MATCH WALL ALIGNMENT.

△

NO.	DATE	REVISION	BY
11/19		RAILING REVISIONS	ATRES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-343

PLANS
8" x 11" CLS/255
LOC.

SHEET 5 OF 6

RAILING
DETAILS

551

ORIGINAL PLANS PREPARED BY
3433 Oakwood Hills Parkway
Eau Claire, WI 54601
www.ayresassociates.com

AYRES ASSOCIATES



Wisconsin Department of Transportation

December 5, 2019

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

NOTICE TO ALL CONTRACTORS:

Proposal #06: 5992-10-31, WISC 2019 771
City of Madison, Gammon Road
W Twn Mall to Grand Canyon Dr
Local Street
Dane County

5992-10-32, WISC 2019 772
City of Madison, Gammon Road
USH 12 to Mineral Point Road
Local Street
Dane County

5992-10-33
City of Madison, Gammon Road
USH 12 to Mineral Point Road
Local Street
Dane County

Letting of December 10, 2019

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
95	Colored Crosswalk Green, SPV.0165.001

Added Special Provisions	
Article No.	Description
27	Removing Asphaltic Longitudinal Notched Wedge Joint Milling, 204.0126.S
73	No Mow Seed Mix, SPV.0085.001
102	Cold Patch, SPV.0195.001

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
455.0605	Tack Coat	GAL	3321	83	3,404
460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	4,500	35,535	40,035
628.2006	Erosion Mat Urban Class I Type A	SY	9,700	1,900	11,600

629.0210	Fertilizer Type B	CWT	7.80	1.24	9.04
630.0130	Seeding Mixture No. 30	LB	66	-26	40
630.0140	Seeding Mixture No. 40	LB	158	-28	130
630.0200	Seeding Temporary	LB	66	-26	40
630.0500	Seed Water	MGAL	300	100	400
631.0300	Sod Water	MGAL	160	-50	110
631.1000	Sod Lawn	SY	6,100	-1,900	4,200

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0126.S	Removing Asphaltic Longitudinal Notched Wedge Joint Milling	LF	0	10,800	10,800
460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	0	135	40,035
641.8100.10	Overhead Sign Support S-13-0516	LS	0	1	1
641.8100.14	Overhead Sign Support S-13-0522	LS	0	1	1
641.8100.15	Overhead Sign Support S-13-0523	LS	0	1	1
641.8100.16	Overhead Sign Support S-13-0525	LS	0	1	1
641.8100.17	Overhead Sign Support S-13-0526	LS	0	1	1
641.8100.18	Overhead Sign Support S-13-0527	LS	0	1	1
641.8100.19	Overhead Sign Support S-13-0528	LS	0	1	1
SPV.0085.001	No Mow Seed Mix	LB	0	218	218
SPV.0195.001	Cold Patch	TON	0	10	10

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
641.1200.10	Sign Bridge Cantilevered S-13-0516	LS	1	0	0
641.1200.14	Sign Bridge Cantilevered S-13-0522	LS	1	0	0
641.1200.15	Sign Bridge Cantilevered S-13-0523	LS	1	0	0
641.1200.16	Sign Bridge Cantilevered S-13-0525	LS	1	0	0
641.1200.17	Sign Bridge Cantilevered S-13-0526	LS	1	0	0
641.1200.18	Sign Bridge Cantilevered S-13-0527	LS	1	0	0
641.1200.19	Sign Bridge Cantilevered S-13-0528	LS	1	0	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
2	General Notes – Added note to clarify reference to Topsoil Special bid item
37	Construction Details – Added detail for temporary asphaltic longitudinal wedge
71-79	Erosion Control Detail Sheets – Revised to show addition of new No Mow Seed Mix and changes to other bid items
245	Miscellaneous Quantity Sheet – Revised quantities for tack coat and added Cold Patch item
246	Miscellaneous Quantity Sheet – Added tables for Removing Asphaltic Longitudinal Notched Wedge Joint Milling and Reheating HMA Pavement Longitudinal Joints
263	Miscellaneous Quantity Sheet – Revised for adjusted finishing quantities and addition of No Mow Seed Mix quantity
271	Miscellaneous Quantity Sheet – Revised bid item names for 7 overhead sign support items
297	Miscellaneous Quantity Sheet – Removed Reheating HMA Pavement table

Deleted Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
365	Removed SDD 13C19-01 for HMA Longitudinal Joints

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
5992-10-31 5992-10-32
December 5, 2019

Special Provisions

95. Colored Crosswalk Green, Item SPV.0165.001

A Description

This work consists of furnishing and applying a green colored, high friction surfacing system in accordance with this Section and in conformity with the lines and details shown on the plans. The location of the Colored Crosswalk Green is noted in the plans and consists of a Colored Crosswalk Green, high friction surface installed in the crosswalk areas of the multi-use side path along Gammon Road. The system shall consist of a Methyl Methacrylate resin colorized with pigment to produce the specified color and mixed with anti-skid aggregate that is used for pavement markings.

The color of the Colored Crosswalk Green surface shall be Bike Lane Green.

The manufacturer's technical representative shall come to the construction site to train Department and Contractor personnel prior to surface treatment and shall be available during application as necessary.

B Materials

General: Use Color-Safe Pavement Marking with Anti-Skid Surface by Transpo Industries, or CycleGrip MAXX by Ennis-Flint or an approved equal. Use a Methyl Methacrylate (MMA) based resin system capable of retaining an aggregate topping under vehicular traffic conditions. Install Colored Crosswalk Green in accordance with manufactures specifications and these special provisions.

The MMA based resin system shall comply with chromaticity requirements in accordance with MUTCD Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes.

MMA Based Resin System: The MMA based resin system shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	400	ASTM D 638
Hardness, Shore D, minimum	50	ASTM D 2240
Gel Time, minutes, minimum	10	ASTM D 2471
Cure Rate, hours, maximum	3	Film@ 75°F
Water Absorption @ 24 hours, max.	0.25%	ASTM D 570

Aggregate: The aggregate shall be high friction crushed Bauxite, Granite, or gravel. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Hardness, minimum	7	Mohs Scale

C Construction

General: Apply Colored Crosswalk Green in accordance with manufactures specifications.

Preparation: Prepare surfaces so that they are clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the MMA based resin system and existing

surfaces. The manufacturer's representative will determine if all surfaces have been adequately cleaned.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the Engineer. Remove by grinding any pavement markings that conflict with the surface application and thoroughly sweep or vacuum the surface clean prior to the epoxy binder application.

Pre-treat joints and cracks greater than 1/4 inches in width and depth with the MMA resin system specified herein or by using an alternative procedure proposed by the manufacturer and agreed upon by the Engineer. Proceed with the MMA resin system installation once the product, in the pre-treated areas, has gelled or once the alternative procedure has been accomplished.

For applications on new pavements, install the high friction surfacing system topping a minimum of 20 days after the placement of the underlying and adjacent pavement. If temperatures do not allow application of the high friction surfacing system it may be applied in the following spring when adequate temperatures for application occur.

Curing: Allow the MMA based resin system to cure in accordance with manufacturer recommendations. Protect treated surfaces from traffic and environmental effects until the area has cured.

PERFORMANCE REQUIREMENTS

Raveling and Delamination: Remove and replace Colored Crosswalk Green surface treatment that ravel, delaminates, or wears off within 90 days after placement, unless approved to remain in place by the Engineer. The limits of removal and replacement shall be approved by the Engineer. The replaced Colored Crosswalk Green surface treatment shall meet the requirements of this sub-article.

Warranty: The MMA based resin system material shall be installed per plans and specification. The Engineer will notify the Contractor within 48 hours of installation regarding any of the MMA based resin system material that is installed not to specification or to the satisfaction of the Engineer. Non conforming MMA based resin system material shall be removed at no charge to the City and replaced with conforming product.

The warranty period in reference to the following points is to be 1 year from date of installation. Warranty of the following items shall be submitted in writing by the Contractor or his installer prior to the pre-construction meeting.

- The MMA based resin system material will maintain its original color in the surface area throughout the 'warranty period' with the exception of natural weathering, tire and dirt deposits and abnormal markings applied after installation.
- Friction will achieve a minimum BPN of 60 in accordance with ASTM E-303
- The MMA based resin system material will maintain its skid resistance qualities in 100% of its surface area to never fall below a BPN of 60 during the 'warranty period'.
- With the exception of structural cracking or excessive movement of the surface beneath, the MMA based resin system will not be subject to excessive cracking in its surface.

D Measurement

The department will measure Colored Crosswalk Green by the square foot acceptably completed. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.001	Colored Crosswalk Green	SF

Payment is full compensation for furnishing and installing all materials including any re-application or repair required under the Performance Requirements and Warranty as provided herein.

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

A Description

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

B (Vacant)

C Construction

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

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

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

D Measurement

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

E Payment

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

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

Payment is full compensation for milling, removing, sweeping, cleaning, and disposing of materials.
stp-204-045 (20191121)

101. No Mow Seed Mix, Item SPV.0085.001

A Description

This special provision describes the provision and placement of No Mow Seed Mix within the median areas of the project.

B Materials

The contractor shall supply seed mix that meets the specification detailed below. Availability of specific species may be limited. Substitutions for individual species may be permissible and shall be approved by the engineer prior to seed mix order.

WILDFLOWERS

Botanical Name (Common Name)

Allium cernuum (Nodding Onion) % by wt. 0.54

Asclepias tuberosa (Butterfly Weed) % by wt. 1.09

Astragalus canadensis (Canada Milk Vetch) % by wt. 0.41

Baptisia alba (White Wild Indigo) % by wt. 1.09

Chamaecrista fasciculata (Partridge Pea) % by wt. 8.71

Coreopsis 7exicana7e (Lance-leaf Coreopsis) % by wt. 4.36

Dalea candida (White Prairie Clover) % by wt. 3.27

Dalea purpurea (Purple Prairie Clover) % by wt. 4.36

Echinacea pallida (Pale Purple Coneflower) % by wt. 2.18

Echinacea purpurea (Purple Coneflower) % by wt. 1.09

Heliopsis helianthoides (Early Sunflower) % by wt. 2.18

Lespedeza 7exicana (Round-headed Bush Clover) % by wt. 1.09

Penstemon digitalis (Foxglove Beardtongue) % by wt. 0.82

Rudbeckia hirta (Black-eyed Susan) % by wt. 4.36

Senna hebecarpa (Wild Senna) % by wt. 2.18

Symphyotrichum 7exic (Smooth Blue Aster) % by wt. 0.27

Verbena stricta (Hoary Vervain) % by wt. 1.09

GRASSES, SEDGES & RUSHES

Botanical Name (Common Name)

Bouteloua curtipendula (Side-oats Grama) % by wt. 26.14

Bouteloua gracilis (Blue Grama) % by wt. 8.71

Muhlenbergia 7exicana (Leafy Satin Grass) % by wt. 1.36

Schyzachyrium scoparium (Little Bluestem) % by wt. 20.91

Sporobolus compositus (Rough Dropseed) % by wt. 3.27

C Construction

Seed shall be placed according to the supplier's recommendations and per Article 207 of the City of Madison Standard Specifications for Public Works Construction.

D Measurement

The department will measure No Mow Seed Mix per pound supplied and placed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	No Mow Seed Mix	LB

Payment is full compensation for provision and acceptable placement of the seed mix as set forth in this special provision.

102. Cold Patch, Item SPV.0195.001

A Description

This special provision describes furnishing, stockpiling, placing and maintaining cold patch material. The cold patch material shall be used for short term maintenance purposes to fill potholes/voids in the existing or temporary pavement surfaces as directed by the engineer.

B Materials

B.1 General

Furnish cold patch that is a combination of course aggregate, natural sand and bituminous material MC-250. Furnish a mixture designed to have a workability range of 15 degrees Fahrenheit to 100 degrees Fahrenheit without the addition of heat. Furnish a mixture having good adhesion to wet surfaces and resistant to damage by water, salt and deicing products. Provide a uniform mixture not requiring any mixing or special handling prior to use.

B.2 Gradation

Provide material conforming to the following gradation requirements:

SIEVE SIZE	PERCENT PASSING (by weight)
3/8 Inch (9.5mm)	96-100
No. 4 (4.75 mm)	76-82
No. 8 (2.38 mm)	50-60
No. 50 (.297 mm)	15-20
No. 200 (0.74 mm)	2-5
Bitumen	4.8-5.2

C Construction

Choose a smooth, firm, and well-drained area for an on-site stockpile that is cleared of vegetation and foreign material that may contaminate the cold patch. Locate the stockpile so it is easily accessible

and able to be maintained and replenished at any time during the duration of the project. Maintain a minimum stockpile size of 2 tons or as directed by the engineer.

Application of cold patch must be able to be accomplished by hand labor as necessary. Prior to filling any potholes/voids remove all ponded water and loose debris. Place material into the pothole/void and compact flush with a tamper, roller, or vehicle tire. Traffic must be able to travel over the patch immediately after compacting.

Provide availability of equipment and forces to expeditiously repair areas within 2 hours of a repair request by the engineer.

D Measurement

The department will measure Cold Patch in tons of cold patch, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.001	Cold Patch	TON

Schedule of Items

Attached, dated December 5, 2019, are the revised Schedule of Items Pages 1 – 27.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 2, 37, 71-79, 245, 246, 263, 271, 297, 365.

END OF ADDENDUM

GENERAL NOTES

ELEVATIONS SHOWN ARE REFERENCED TO THE USGS DATUM NAVD 88 (1988).

GUTTER SLOPE ON CONCRETE CURB & GUTTER IS 0.25%.

WHEN THE QUANTITY OF BASE AGGREGATE, HMA PAVEMENT OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

CURVE DATA IS BASED ON ARC DEFINITION.

THE EXACT LOCATION OF EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY ARE TO BE 6-INCH TOPSOIL SPECIAL, FERTILIZED, SEED, MULCHED OR SOD. ALL NOTES IN THE PLANS THAT IDENTIFY "TOPSOIL" REFER TO THE BID ITEM "TOPSOIL SPECIAL".

BEARINGS SHOWN ON THE PLANS ARE SHOWN TO THE NEAREST SECOND.

ALL CURB AND GUTTER BADI, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

A VERTICAL SAWCUT WILL BE MADE THROUGH PAVEMENTS AT REMOVAL LIMITS.

LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE. RIM ELEVATIONS ARE GIVEN AT THE FLOWLINE OF INLET OR AT THE CENTER OF MANHOLE.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

EXCAVATION BELOW SUBGRADE (EBS) MAY BE REQUIRED IN AREAS WHERE POOR SOILS ARE ENCOUNTERED. EBS MATERIAL MAY BE USED AS FILL IN AREAS OUTSIDE OF ROADWAY SHOULDER POINTS. ESTIMATED EBS AREAS ARE SHOWN ON THE CROSS SECTIONS. ACTUAL LIMITS OF EBS IS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:

- UPPER: 2.0" (MITSB-28H)

- MIDDLE: 2.5" (MITSB-28S)

- LOWER: 2.25" (MITSB-28S)

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

Addendum No. 02
ID 5992-10-31/32/33
Revised Sheet 2
December 5, 2019

DESIGN CONTACT

AYRES ASSOCIATES
ATTN: DAN SCHRUM, P.E.
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DNR CONTACT

WISCONSIN DNR, SOUTHWEST REGION
ATTN: ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 275-3301
FAX: (608) 275-3301
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
PAVING GRADES
EROSION CONTROL & FENCING
STORM SEWER
WATER AND SANITARY SEWER
EXISTING UTILITIES
PERMANENT SIGNING AND PAVEMENT MARKING
LIGHTING AND SIGNALS
TEMPORARY SIGNALS
TRAFFIC CONTROL
CONSTRUCTION STAGING
TEMPORARY DRAINAGE
ALIGNMENT DIAGRAM

* DENOTES UTILITIES THAT ARE NOT A DIGGERS HOTLINE MEMBER

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

UTILITY CONTACTS

WATERMAIN:

CITY OF MADISON WATER UTILITY
ATTN: ADAM WIEDERHOEFT
119 E. OLIN AVENUE
MADISON, WI 53713
PHONE: (608) 266-9121 FAX: (608) 266-4426
E-MAIL: AWIEDERHOEFT@MADISONWATER.ORG

STORM SEWER:

CITY OF MADISON ENGINEERING DIVISION
ATTN: JAKET SCHMIDT
1000 EAST MAIN ST., 2ND FLOOR
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SANITARY SEWER:

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ATTN: MARK MODER
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SANITARY SEWER

MMISO
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1510 MCJOLAND ROAD
MADISON, WI 53713

TRAFFIC SIGNALS & STREET LIGHTING:

CITY OF MADISON TRAFFIC ENGINEERING DIVISION

ATTN: BRIAN SMITH
P.O. BOX 2986
MADISON, WI 53701-2986
PHONE: (608) 261-5625
FAX: (608) 261-5625
E-MAIL: BSMITH@CITYOFMADISON.COM

GAS:

MADISON GAS & ELECTRIC
ATTN: SHAUN ENDRES
P.O. BOX 1231
MADISON, WI 53701-1231
PHONE: (608) 252-7224
E-MAIL: SENDRES@MGE.COM

CABLE TELEVISION:

CHARTER COMMUNICATIONS
ATTN: BRANDON STORM
2701 DANIELS ST.
MADISON, WI 53718
PHONE: (608) 274-3822 EX 6642
E-MAIL: BRANDON.STORM@CHARTERCOM.COM

ELECTRIC:

AMERICAN TRANSMISSION COMPANY
ATTN: LORI KOLBOW
W234 N2000 RIDGEVIEW PKWY CT
TULSA, OK 74103
PHONE: (202) 506-6886
E-MAIL: LKOLBOW@ATCLLC.COM

UTILITY CONTACTS (CONT')

ELECTRIC:

ALLIANT ENERGY
MICHAEL BROQUIN
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MADISON GAS & ELECTRIC

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TELEPHONE:

AT&T WISCONSIN
ATTN: CAROL ANASON
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E-MAIL: CAZ624@ATT.COM

AT&T CORPORATION

ATTN: TODD MOORDA
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MADISON, WI 53703
PHONE: (608) 556-7199
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COMMUNICATIONS:

WISCONSIN INDEPENDENT NETWORK
ATTN: JEFF MADSON
800 WISCONSIN ST. 1107
EAU CLAIRE, WI 54703-3613
PHONE: (715) 832-6041
E-MAIL: JBRKENHEIR@WINS.NET

WINDSTREAM

FORMERLY: KENTUCKY DATA LINK
ATTN: KEVIN PARRIS
1555 WRIGHT STREET
MADISON, WI 53704

WISCONSIN DEPARTMENT OF TRANSPORTATION

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MILWAUKEE, WI 53203
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ATTN: GRAHAM HEITZ

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TDS METROCOM

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TDS TELECOMMUNICATIONS

JERRY MYERS
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E-MAIL: JERRY.MYERS@TDSTELECOM.COM

CENTURYLINK CLEC

ATTN: LORI KOLBOW
100 CINCINNATI AVE, SUITE 1200
TULSA, OK 74103
E-MAIL: KENDALL.ZETINA@CENTURYLINK.COM

MCI (KU ENGINEERING)

STEVE KLOCKER
4585 COLEMAN STREET
BISMARCK, ND 58503
PHONE: (701) 686-0163
E-MAIL: STEVE.KLOCKER@KLENG.COM

PROJECT NO: 5992-10-31/32/33

HWY: GAMMON ROAD

COUNTY: DANE

GENERAL NOTES AND UTILITY CONTACTS

SHEET 2

E

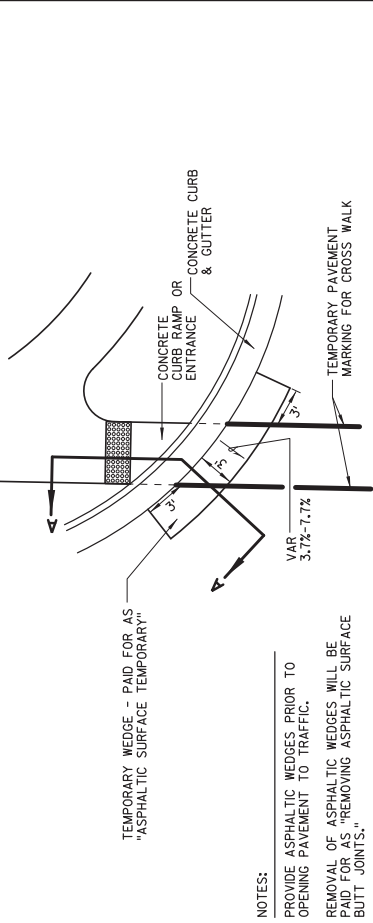
FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\00N-Sheets\01\GN.dgn

PLOT BY : DM253

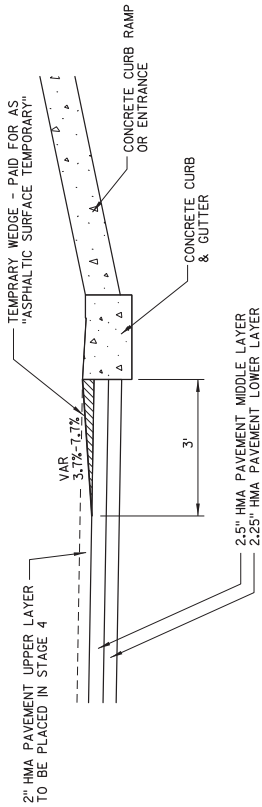
PLOT DATE : 12/4/2019

PLOT SCALE : 1:200

WISDOT/CADDs SHEET 42



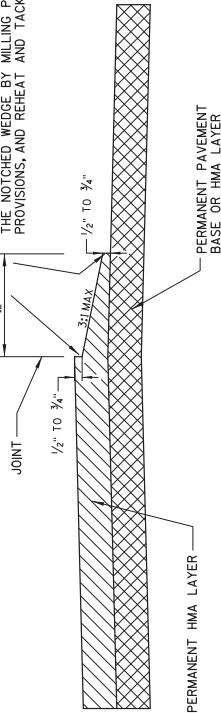
NOTES:
 PROVIDE ASPHALTIC WEDGES PRIOR TO
 OPENING PAVEMENT TO TRAFFIC.
 REMOVAL OF ASPHALTIC WEDGES WILL BE
 PAID FOR AS "REMOVING ASPHALTIC SURFACE
 BUTT JOINTS."



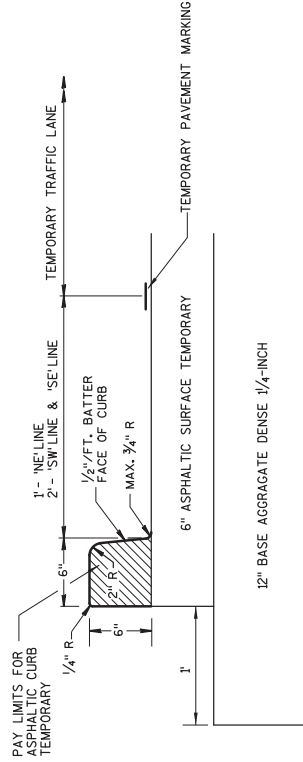
SECTION A-A

DETAIL FOR TEMPORARY WEDGE AT CURB RAMPS OR ENTRANCES

PROVIDE TEMPORARY NOTCHED WEDGE FOR HMA JOINTS
 HAVING A DROP OF 2" OR MORE, AND UNDER TRAFFIC.
 BEFORE CONTINUATION OF PERMANENT PAVING, REMOVE
 THE NOTCHED WEDGE BY MILLING PER THE SPECIAL
 PROVISIONS, AND REPEAT AND TACK THE JOINT.

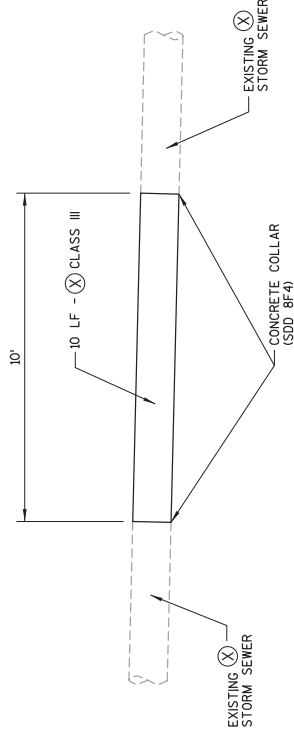


DETAIL FOR TEMPORARY ASPHALTIC LONGITUDINAL NOTCHED WEDGE UNDER TRAFFIC



DETAIL FOR ASPHALTIC CURB TEMPORARY

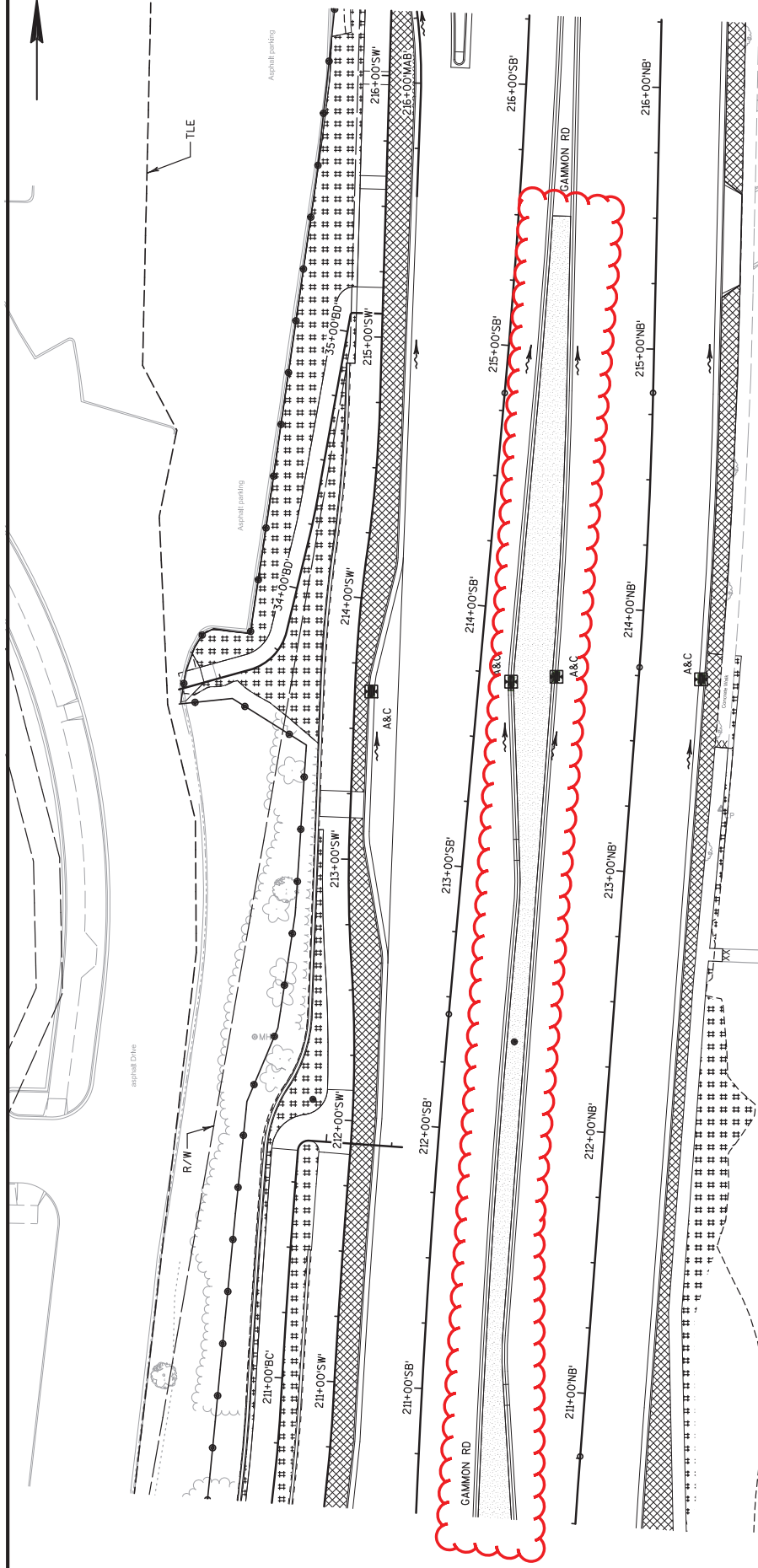
STA. 205+78'W TO STA. 207+34'W RT
 STA. 207+02'SE TO STA. 209+47'SE RT
 STA. 207+47'NE TO STA. 213+71'NE RT



DETAIL FOR FINAL STORM SEWER RESTORATION

SUBSTAGE 2A: STA. 207+40'NB - 105' LT (X) = 18")
 SUBSTAGE 3B: STA. 224+81'NB - 17' LT (X) = 15")

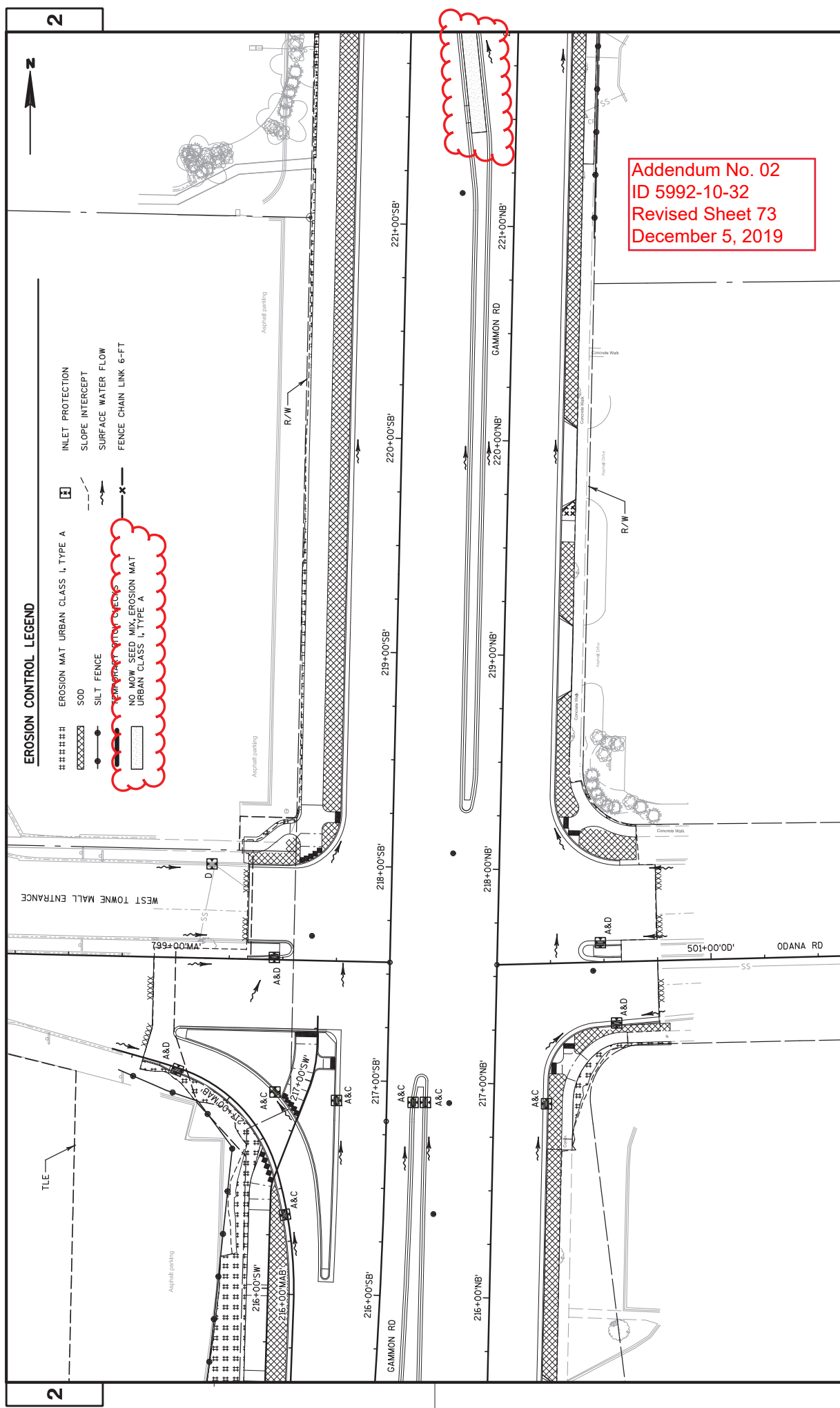
Addendum No. 02
 ID 5992-10-32
 Revised Sheet 37
 December 5, 2019



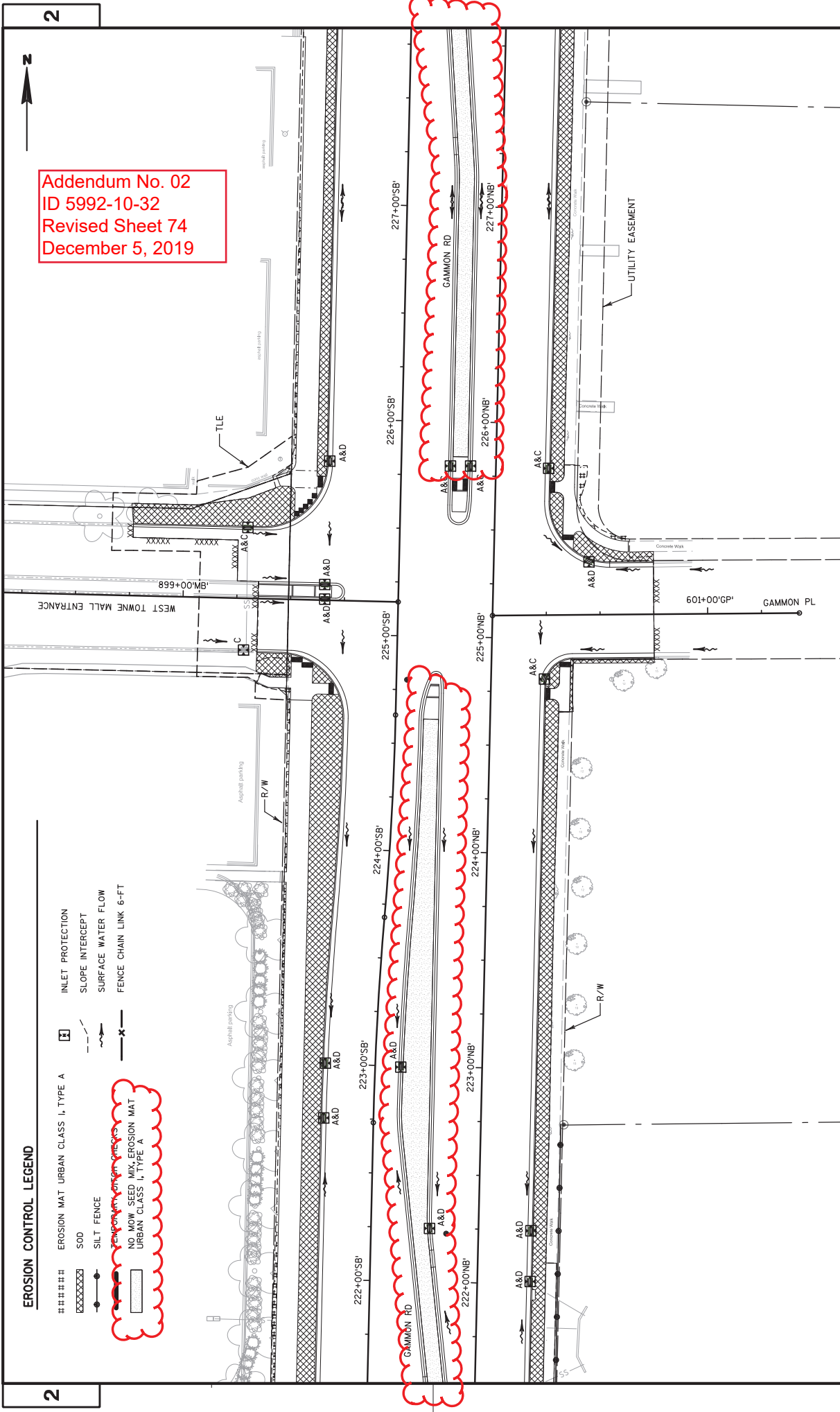
Addendum No. 02
ID 5992-10-32
Revised Sheet 72
December 5, 2019

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- NO MOW SEED MIX EROSION MAT URBAN CLASS I, TYPE A
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT



Addendum No. 02
 ID 5992-10-32
 Revised Sheet 73
 December 5, 2019



EROSION CONTROL LEGEND

- #### EROSION MAT URBAN CLASS I, TYPE A
- XXXXXX SOD
- SILT FENCE
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT
- NO MOW SEED MIX EROSION MAT URBAN CLASS I, TYPE A

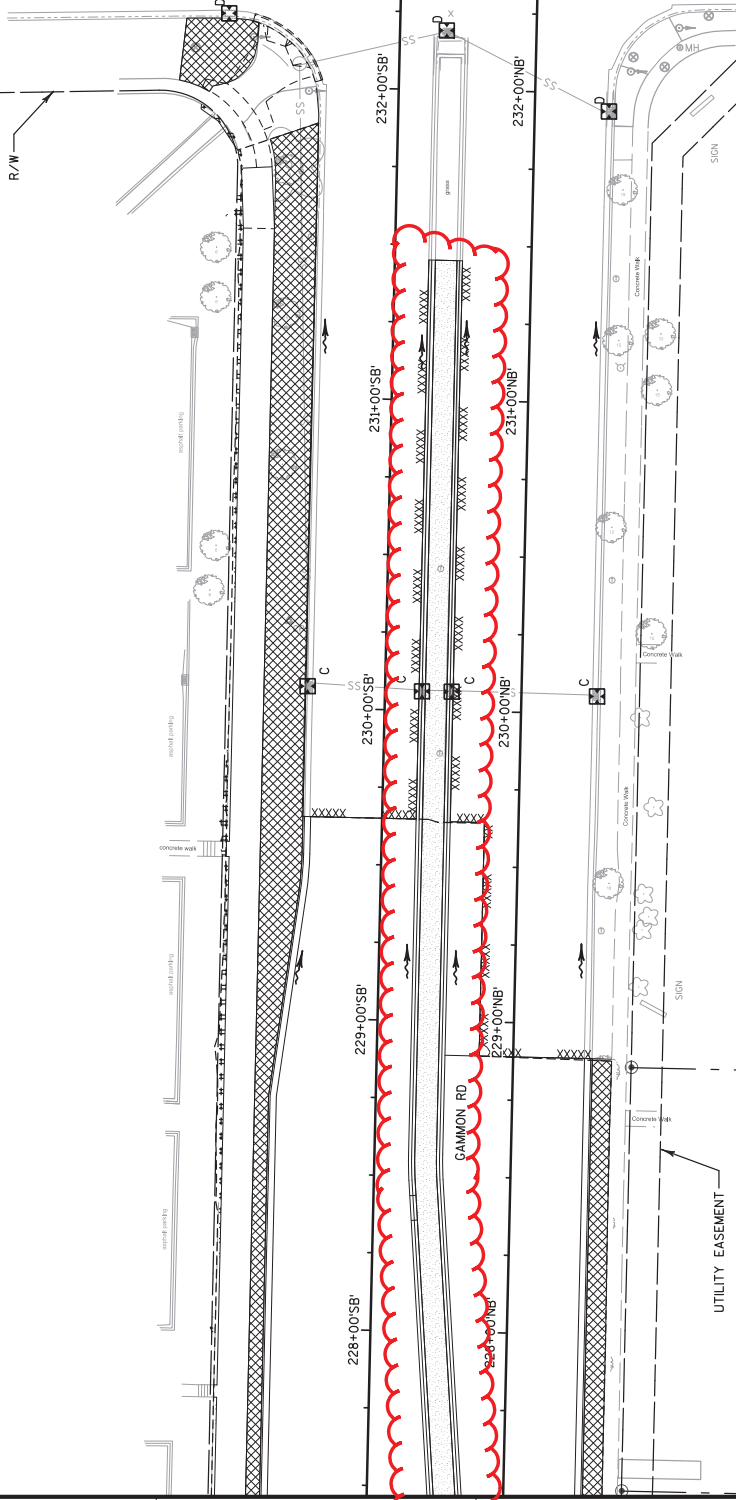
Addendum No. 02
 ID 5992-10-32
 Revised Sheet 74
 December 5, 2019

MINERAL POINT RD

GAMMON RD

MINERAL POINT RD

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ID 5992-10-32
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EROSION CONTROL LEGEND

- #### EROSION MAT URBAN CLASS I, TYPE A
- XXXXXX SOD
- SILT FENCE
- NO MOW SEED MIX, EROSION MAT URBAN CLASS I, TYPE A
- EROSION CONTROL FENCE
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

PROJECT NO: 5992-10-32

HWY: GAMMON RD

COUNTY: DANE

EROSION CONTROL AND FENCING

SCALE, FEET 0 20 40

SHEET 75

E

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PLOT DATE : 11/22/2019

PLOT SCALE : 1:40

WISDOT/CADD SHEET 42

REMOVE FENCE (CHAIN LINK)
STA 294+00'BP'LT - 294+75'

EXISTING 6' CHAIN LINK FENCE TO REMAIN -

2001

ON RAMP

EROSION CONTROL LEGEND

- ##### EROSION MAT URBAN CLASS I, TYPE A
- 500 SLOPE INTERCEPT
- SILT FENCE SURFACE WATER FLOW
- DITCH CHECKS
- NO MOW SIDE MIX EROSION MAT URBAN CLASS I, TYPE A
- INLET PROTECTION
- FENCE CHAIN LINK 6-FT

PROJECT NO: 5992-10-31

HWY: GAMMON RD

COUNTY: DANE

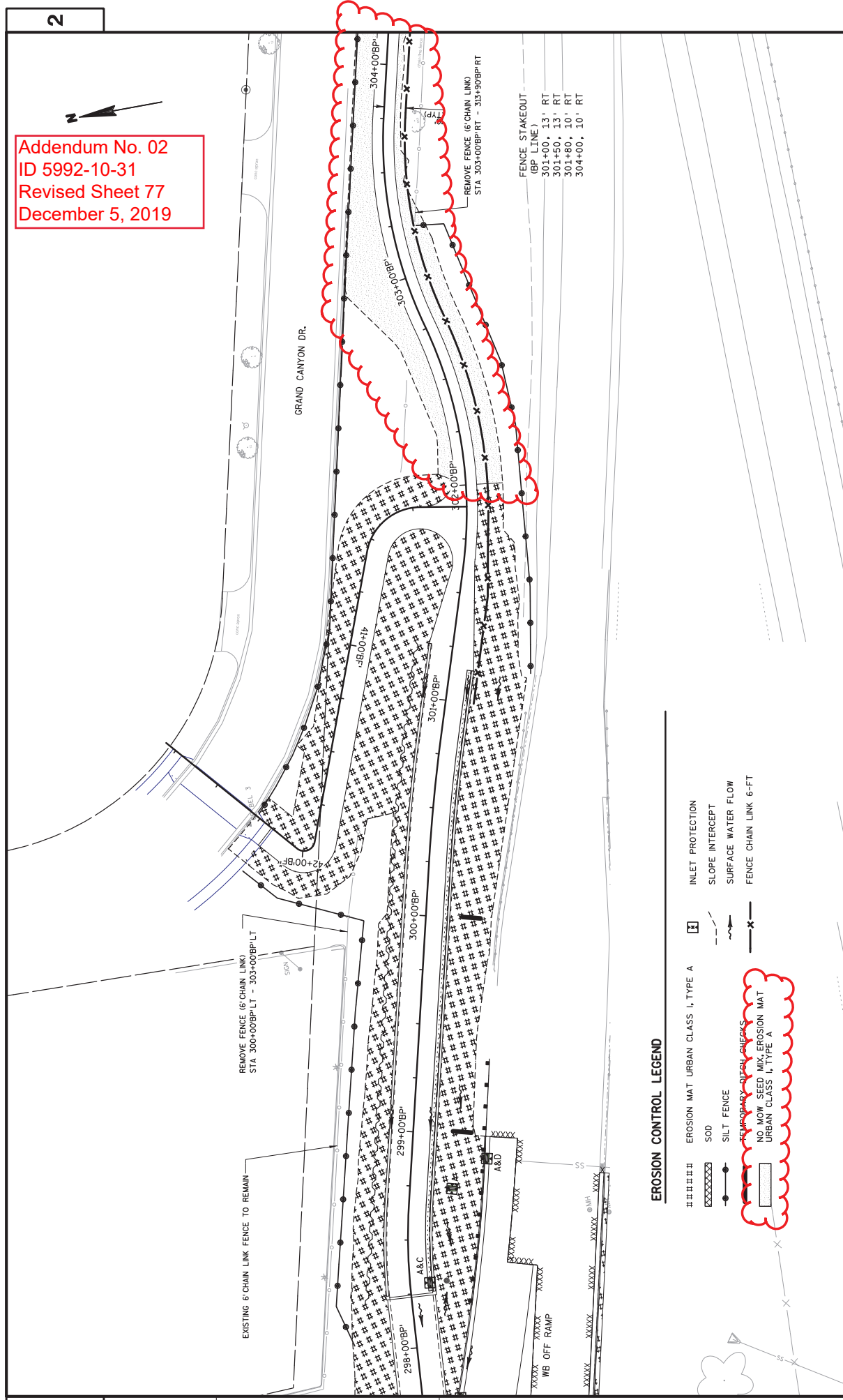
EROSION CONTROL AND FENCING

SCALE, FEET

76

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PLOT BY : DM253
PLOT DATE : 11/22/2019
PLOT SCALE : 1:40
WISDOT/CADDs SHEET 42

Addendum No. 02
ID 5992-10-31
Revised Sheet 77
December 5, 2019



EROSION CONTROL LEGEND

- ##### EROSION MAT URBAN CLASS I, TYPE A
- XXXXXX SOD
- SILT FENCE
- FENCE CHAIN LINK 6-FT
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT
- NO MOW SEED MIX, EROSION MAT URBAN CLASS I, TYPE A

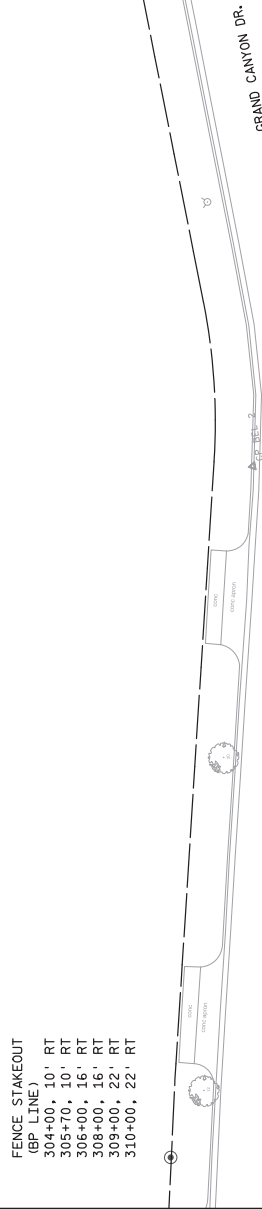
EROSION CONTROL LEGEND

#####	EROSION MAT URBAN CLASS I, TYPE A	INLET PROTECTION
XXXXXX	SOD	SLOPE INTERCEPT
—●—	SILT FENCE	SURFACE WATER FLOW
—X—	NO MOW SEED MIX EROSION MAT URBAN CLASS I, TYPE A	FENCE CHAIN LINK 6-FT

FENCE STAKEOUT
(BP LINE)

304+00, 10' RT
 305+70, 10' RT
 306+00, 16' RT
 308+00, 16' RT
 309+00, 22' RT
 310+00, 22' RT

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 ID 5992-10-31
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 December 5, 2019



PROJECT NO: 5992-10-31

HWY: GAMMON RD

COUNTY: DANE

EROSION CONTROL AND FENCING

SCALE, FEET

40

SHEET 78

E

FILE NAME : N:\410737 - Gammon Road\Roadway\DWG\Sheets\10\022013.EC.Bike Path.dgn

PLOT BY : DM253

PLOT DATE : 11/22/2019

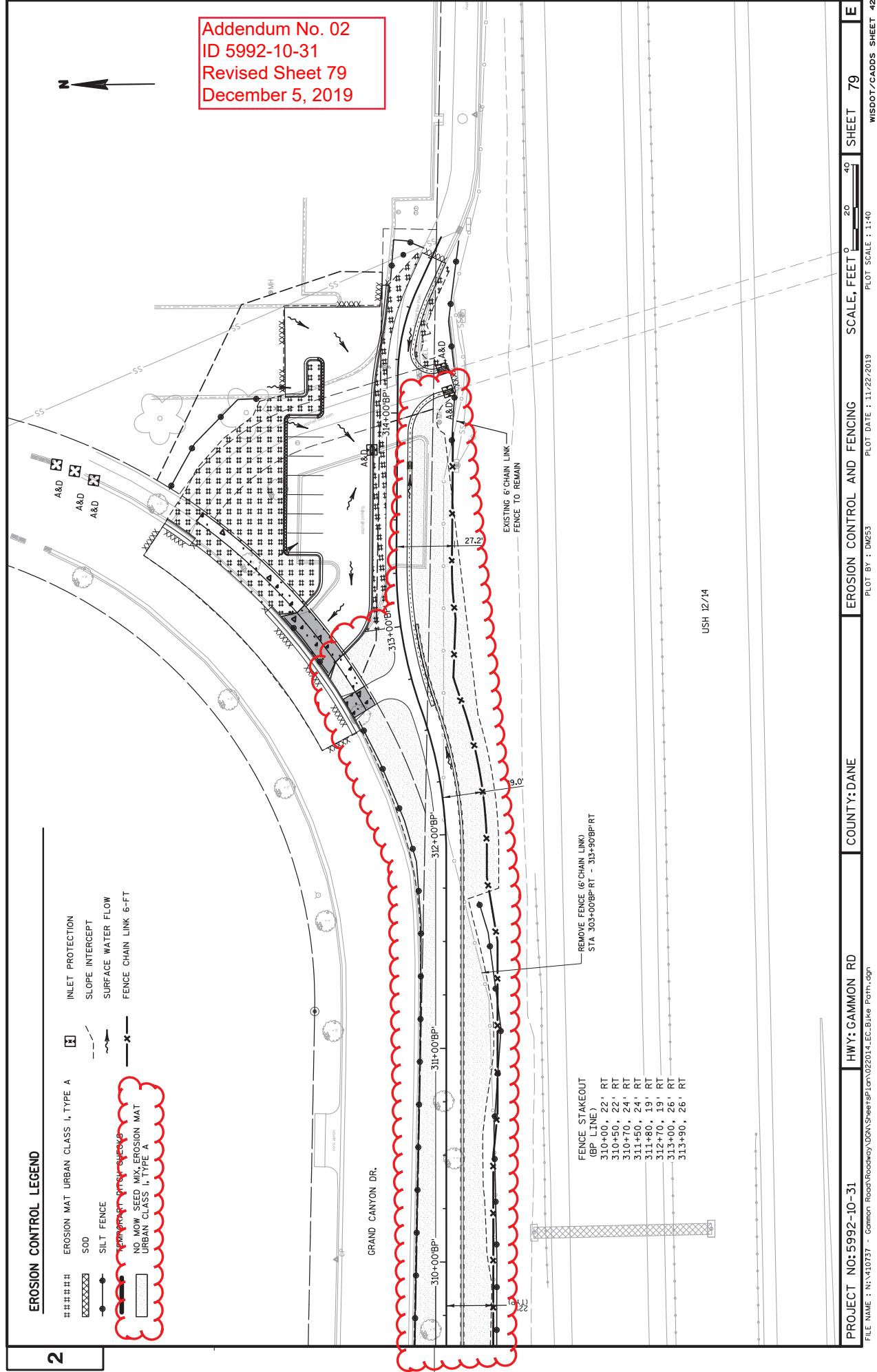
PLOT SCALE : 1:40

WISDOT/CADD SHEET 42

EROSION CONTROL LEGEND

- ##### EROSION MAT URBAN CLASS I, TYPE A
- XXXXXX SOD
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT
- NO MOW SEED MIX EROSION MAT URBAN CLASS I, TYPE A
- INLET PROTECTION
- SILT FENCE

Addendum No. 02
ID 5992-10-31
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December 5, 2019



PROJECT NO: 5992-10-31

HWY: GAMMON RD

COUNTY: DANE

EROSION CONTROL AND FENCING

SCALE, FEET 0 20 40

SHEET 79

E

FILE NAME : N:\410737 - Gammon Road\Roadway\Drawings\Drawings\5992-10-31\022014_EC_Bike Path.dgn

PLOT BY : DM253

PLOT DATE : 11/22/2019

PLOT SCALE : 1:40

WISDOT/CADD SHEET 42

Addendum No. 02
ID 5992-10-31/32
Revised Sheet 245
December 5, 2019

ASPHALT PAVEMENT ITEMS

PROJECT NO.	CAT	STA	TO	STA	ALI	LOCATION	HMA COLD WEATHER PAVING	450.4000	455.0605	460.6223	460.6424	465.0105*	465.0110	SPV.0195.001
							TACK COAT	TON	GAL	TON	TON	TON	TON	TON
PROJECT 5992-10-31														
0010	60+06	-	60+20	PL		GRAND CANYON DR.	-	-	1	-	-	4	-	-
	60+17	-	60+85	PL		GRAND CANYON DR.	-	-	-	-	-	1	-	-
	60+34	-	61+99	PL		PARKING LOT	-	-	-	-	-	110	-	-
						GRAND CANYON DR.	17	-	-	-	-	30	-	-
UNDISTRIBUTED														
PROJECT 5992-10-31 TOTALS								0	18	0	0	145	0	0
PROJECT 5992-10-32														
0010	195+46	-	195+77	WBF		LANE WB OFF RAMP	-	6	7	14	6	-	-	-
	207+83	-	216+00	SB		WB ON RAMP/SB LANES	-	500	629	1,200	500	-	-	-
	208+08	-	216+00	NB		WB OFF RAMP/NB LANES	-	510	644	1,220	510	-	-	-
	216+00	-	218+25	NB		INTERSECTION	-	390	486	924	390	-	-	-
	218+25	-	224+50	NB		LANES	-	300	377	716	300	-	-	-
	218+25	-	224+50	SB		LANES	-	350	436	828	350	-	-	-
	224+50	-	225+75	NB		INTERSECTION	-	200	251	477	200	-	-	-
	225+75	-	228+89	NB		LANES	-	150	184	350	150	-	-	-
	225+75	-	229+64	SB		LANES	-	338	289	549	230	-	-	-
	225+75	-	229+64	SB		INTERSECTIONS	-	-	4	-	-	-	-	-
	INTERSECTIONS	SB				STAGE 1 LOWER LAYER JOINTS - WEDGE REMOVAL	-	-	-	-	-	-	-	-
	INTERSECTIONS	SB				STAGE 1 MIDDLE LAYER JOINTS - WEDGE REMOVAL	-	-	-	-	-	-	-	-
	INTERSECTIONS	NB				STAGE 2 LOWER LAYER JOINTS - WEDGE REMOVAL	-	-	-	-	-	-	-	-
	INTERSECTIONS	NB				STAGE 2 MIDDLE LAYER JOINTS - WEDGE REMOVAL	-	-	-	-	-	-	-	-
	208+08 - 228+89	NB				STAGE 4 UPPER LAYER JOINTS - WEDGE REMOVAL	-	-	32	-	-	-	-	-
	208+03 - 229+65	SB				STAGE 4 UPPER LAYER JOINTS - WEDGE REMOVAL	-	-	35	-	-	-	-	-
						UNDISTRIBUTED	-	-	-	-	-	-	-	-
PROJECT 5992-10-32 TOTALS								2636	3386	6278	2636	0	10	10
OVERALL PROJECT TOTALS								2636	3404	6278	2636	145	10	10

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALTIC SURFACE TEMPORARY

PROJECT NO.	CAT	STA	TON	TON	TEMPORARY	ASPHALTIC SURFACE	TEMPORARY	LF	CONSTRUCTION	650.4500*	CONSTRUCTION	650.5000*	CONSTRUCTION STAKING	650.9920*
PROJECT 5992-10-32			DENSE 1 1/4-INCH		TEMPORARY		TEMPORARY		STAKING SUBGRADE		STAKING BASE		SLOPE STAKES	
0010		STAGE 1A	5407	2433			187		2976		2976			2976
		STAGE 1B	104	46			-		-		-			-
		STAGE 1E	98	44			-		-		-			-
		STAGE 1F	1997	898			828		1520		1520			1520
		STAGE 2B	206	92			-		-		-			-
		STAGE 2C	4	1			-		-		-			-
		STAGE 2D	219	98			-		-		-			-
		STAGE 3A	278	125			-		159		159			159
		CURB RAMP WEDGE-ODANA	-	3			-		-		-			-
		CURB RAMP WEDGE-GAMMON PL	-	4			-		-		-			-
		MANHOLES	-	1			-		-		-			-
		UNDISTRIBUTED	887	63			85		45		45			45
PROJECT 5992-10-32 TOTALS			9200	3800			1100		4700		4700			4700
OVERALL PROJECT TOTAL			9200	3800			1100		4700		4700			4700

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December 5, 2019

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

REHEATING HMA JOINTS & REMOVING NOTCHED WEDGE MILLING

PROJECT NO.	CAT	STAGE	HMA LAYER	LOCATION	LF	REHEATING	HMA	PAVEMENT	LONGITUDINAL	JOINTS	LF
PROJECT 5992-10-32											
0010		1	LOWER	SB GAMMON RD, WB ON-RAMP, WT ENTRANCES	550	6800					
		1	MIDDLE	SB GAMMON RD, WB ON-RAMP, WT ENTRANCES	550	6800					
		2	LOWER	NB GAMMON RD, WB OFF-RAMP, SIDE ROADS	550	6500					
		2	MIDDLE	NB GAMMON RD, WB OFF-RAMP, SIDE ROADS	550	6500					
		4	UPPER	NB GAMMON RD, WB OFF-RAMP, SIDE ROADS	4100	6500					
		4	UPPER	SB GAMMON RD, WB ON-RAMP, WT ENTRANCES	4500	6800					
PROJECT 5992-10-32 TOTALS					10800	39900					

REHEATING HMA JOINTS

*460.4110.S
REHEATING
HMA
PAVEMENT
LONGITUDINAL
JOINTS
LF

PROJECT NO.	CAT	LOCATION	LF
PROJECT 5992-10-31			
0010		GRAND CANYON DR	135
PROJECT 5992-10-31 TOTAL			135

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

**PROVIDE TEMPORARY NOTCHED WEDGE PER SDD 15D39 FOR ALL LONGITUDINAL JOINTS, IN ALL LAYERS OF HMA HAVING A DROPOFF OF 2" OR MORE, AND UNDER TRAFFIC, ON ALL ROADWAYS. PRIOR TO CONTINUATION OF PAVING ALONG THE JOINT, REMOVE THE TEMPORARY NOTCHED WEDGE BY MILLING, AND TACK THE JOINT. QUANTITIES FOR TACK COAT ARE LISTED ELSEWHERE.

***ADDITIONAL QUANTITIES LISTED ELSEWHERE. REHEATING IS REQUIRED FOR ALL COLD LONGITUDINAL JOINTS BETWEEN DRIVING LANES, SHOULDERS, AND TURN LANES IN ALL HMA LAYERS. APPLIES TO GAMMON ROAD, RAMP'S, WEST TOWNE ENTRANCES, ODANA ROAD, AND GAMMON PLACE.

FINISHING ITEMS & EROSION CONTROL

OVERALL PROJECT TOTAL	20	4100	4100	11600	10	15800	790	9.04	40	130	218	40	400	110	4200
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OVERHEAD SIGN SUPPORT

PROJECT NO.	CAT	STA	OFFSET	ALI	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS
PROJECT 5992-10-32																	
0030	211+72.34	RT/LT	SB	1	-	-	-	-	-	-	-	-	-	-	-	-	-
0040	214+48	LT	NB	-	1	-	-	-	-	-	-	-	-	-	-	-	-
0050	216+04.52	RT	NB	-	-	1	-	-	-	-	-	-	-	-	-	-	-
0060	219+50	LT	NB	-	-	-	1	-	-	-	-	-	-	-	-	-	-
0070	220+25	RT	SB	-	-	-	-	1	-	-	-	-	-	-	-	-	-
0090	211+05.58	RT	NB	-	-	-	-	-	1	-	-	-	-	-	-	-	-
0100	213+85.32	RT	NB	-	-	-	-	-	-	1	-	-	-	-	-	-	-
0110	219+67.1	RT	NB	-	-	-	-	-	-	-	1	-	-	-	-	-	-
0120	227+12.81	RT	NB	-	-	-	-	-	-	-	-	1	-	-	-	-	-
0130	223+65.15	RT	NB	-	-	-	-	-	-	-	-	-	-	1	-	-	-
0140	229+86.25	RT	NB	-	-	-	-	-	-	-	-	-	-	-	-	1	-
PROJECT 5992-10-32 TOTALS				1	1	1	1	1	1	1	1	1	1	1	1	1	1
OVERALL PROJECT TOTALS				1	1	1	1	1	1	1	1	1	1	1	1	1	1

SAW CUTS

PROJECT NO.	CAT	STA	TO	STA	LF	690.0150 SAWING ASPHALT	690.0250 SAWING CONCRETE
PROJECT 5992-10-31							
0010			Grand Canyon Dr		91	5	
			Grand Canyon Dr		36	5	
			Parking Lot North		41	-	
			Parking Lot East		33	2	
			314+00 'Bp'		11	3	
			11+70 'BJ'		9	-	
PROJECT 5992-10-31 TOTALS					221	15	
PROJECT 5992-10-32							
0010			STAGE 1A		-	5690	
			STAGE 1B		-	2560	
			STAGE 1C		110	200	
			STAGE 1D		210	120	
			STAGE 1E		-	270	
			STAGE 1F		870	1720	
			STAGE 2A		110	2230	
			STAGE 2B		50	130	
			STAGE 2C		160	110	
			STAGE 2D		50	-	
			STAGE 3A		4910	-	
			STAGE 3B		610	0	
			STAGE 3C		750	0	
			STAGE 3D		0	0	
PROJECT 5992-10-32 TOTALS					7830	13030	
OVERALL PROJECT TOTAL					8051	13045	

MISCELLANEOUS MAINTENANCE, REPAIRS, FINISHING & FIELD OFFICE

PROJECT NO.	CAT	STA	-	STA	213.0100.02 FINISHING ROADWAY	213.0100.01 FINISHING ROADWAY	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS	642.5401 FIELD OFFICE TYPED	645.5000 TRAFFIC CONTROL
PROJECT 5992-10-31										
0010					1	-	1	-	0.5	1
PROJECT 5992-10-31 TOTALS					1	-	1	-	0.5	1
PROJECT 5992-10-32										
0010					-	1	-	1	0.5	1
PROJECT 5992-10-32 TOTALS					-	1	-	1	0.5	1
OVERALL PROJECT TOTAL					1	1	1	1	1	2

FLUID THERMAL BACKFILL

PROJECT NO.	CAT	STA	OFFSET	ALI	EACH	SPV.0060.650 FLUID THERMAL BACKFILL
PROJECT 5992-10-31						
0010		301+25	19' LT	BP	1	
		301+84	20' LT	BP	1	
		305+85	0.0'	BP	1	
PROJECT 5992-10-31 TOTALS					3	
OVERALL PROJECT TOTAL					3	

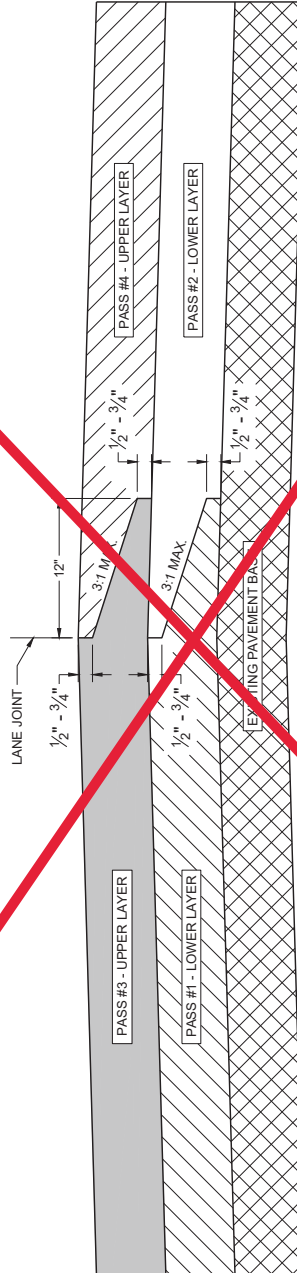
REHEATING HMA PAVEMENT

PROJECT NO.	CAT	LF	COMMENTS
PROJECT 5992-10-32			
0010		-	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS
		UNDISTRIBUTED	REPLACING TEMP. PAVEMENT WITH CURB AND GUTTER
		4500	
		4500	
		PROJECT 5992-10-32 TOTALS	

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Revised Sheet 297
December 5, 2019

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



**TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS**

Addendum No. 02
ID 5992-10-31/32/33
Revised Sheet 365
December 5, 2019

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED _____ /S/ Steven Heide
DATE May 2019 HMA PAVEMENT ENGIN 365
EPAWA



Proposal Schedule of Items

Page 1 of 27

Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0120 Clearing	659.000 ID	_____.	_____.
0004	201.0220 Grubbing	659.000 ID	_____.	_____.
0006	204.0100 Removing Pavement	22,643.000 SY	_____.	_____.
0008	204.0110 Removing Asphaltic Surface	7,640.000 SY	_____.	_____.
0010	204.0115 Removing Asphaltic Surface Butt Joints	150.000 SY	_____.	_____.
0012	204.0120 Removing Asphaltic Surface Milling	270.000 SY	_____.	_____.
0014	204.0140 Removing Gutter	56.000 LF	_____.	_____.
0016	204.0150 Removing Curb & Gutter	1,971.000 LF	_____.	_____.
0018	204.0155 Removing Concrete Sidewalk	2,536.000 SY	_____.	_____.
0020	204.0165 Removing Guardrail	8.000 LF	_____.	_____.
0022	204.0170 Removing Fence	1,463.000 LF	_____.	_____.
0024	204.0195 Removing Concrete Bases	78.000 EACH	_____.	_____.
0026	204.0210 Removing Manholes	12.000 EACH	_____.	_____.
0028	204.0220 Removing Inlets	39.000 EACH	_____.	_____.
0030	204.0245 Removing Storm Sewer (size) 01. 12-Inch	726.000 LF	_____.	_____.
0032	204.0245 Removing Storm Sewer (size) 02. 15-Inch	244.000 LF	_____.	_____.



Proposal Schedule of Items

Page 2 of 27

Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, 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
0034	204.0245 Removing Storm Sewer (size) 03. 18-Inch	389.000 LF	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 04. 24-Inch	512.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 05. 30-Inch	1,105.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 06. 36-Inch	384.000 LF	_____.	_____.
0042	204.0250 Abandoning Manholes	1.000 EACH	_____.	_____.
0044	204.0260 Abandoning Inlets	1.000 EACH	_____.	_____.
0046	204.0291.S Abandoning Sewer	9.000 CY	_____.	_____.
0048	205.0100 Excavation Common	32,619.000 CY	_____.	_____.
0050	206.2000 Excavation for Structures Culverts (structure) 01. B-13-0870	LS	LUMP SUM	_____.
0052	210.2500 Backfill Structure Type B	7,345.000 TON	_____.	_____.
0054	213.0100 Finishing Roadway (project) 01. 5992-10-32	1.000 EACH	_____.	_____.
0056	213.0100 Finishing Roadway (project) 02. 5992-10-31	1.000 EACH	_____.	_____.
0058	305.0110 Base Aggregate Dense 3/4-Inch	191.000 TON	_____.	_____.
0060	305.0120 Base Aggregate Dense 1 1/4-Inch	29,821.000 TON	_____.	_____.
0062	305.0130 Base Aggregate Dense 3-Inch	19,310.000 TON	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	415.0090 Concrete Pavement 9-Inch	120.000 SY	_____.	_____.
0066	415.1090 Concrete Pavement HES 9-Inch	339.000 SY	_____.	_____.
0068	416.0170 Concrete Driveway 7-Inch	135.000 SY	_____.	_____.
0070	416.0610 Drilled Tie Bars	664.000 EACH	_____.	_____.
0072	416.0620 Drilled Dowel Bars	35.000 EACH	_____.	_____.
0074	450.4000 HMA Cold Weather Paving	2,636.000 TON	_____.	_____.
0076	455.0605 Tack Coat	3,404.000 GAL	_____.	_____.
0078	460.2000 Incentive Density HMA Pavement	5,710.000 DOL	1.00000	5,710.00
0080	460.4110.S Reheating HMA Pavement Longitudinal Joints	40,035.000 LF	_____.	_____.
0082	460.6223 HMA Pavement 3 MT 58-28 S	6,278.000 TON	_____.	_____.
0084	460.6424 HMA Pavement 4 MT 58-28 H	2,636.000 TON	_____.	_____.
0086	465.0105 Asphaltic Surface	925.000 TON	_____.	_____.
0088	465.0110 Asphaltic Surface Patching	10.000 TON	_____.	_____.
0090	465.0125 Asphaltic Surface Temporary	3,800.000 TON	_____.	_____.
0092	504.0100 Concrete Masonry Culverts	896.000 CY	_____.	_____.
0094	505.0400 Bar Steel Reinforcement HS Structures	158,390.000 LB	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, 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
0096	505.0600 Bar Steel Reinforcement HS Coated Structures	2,290.000 LB	_____.	_____.
0098	511.1200 Temporary Shoring (structure) 600. B-13-0870	3,300.000 SF	_____.	_____.
0100	511.2200 Temporary Shoring Left in Place (structure) 01. R-13-0338	150.000 SF	_____.	_____.
0102	511.2200 Temporary Shoring Left in Place (structure) 02. R-13-0341	4,030.000 SF	_____.	_____.
0104	516.0100 Dampproofing	875.000 SY	_____.	_____.
0106	516.0500 Rubberized Membrane Waterproofing	75.000 SY	_____.	_____.
0108	517.1015.S Concrete Staining Multi-Color (structure) 01. B-13-0870	5,900.000 SF	_____.	_____.
0110	517.1050.S Architectural Surface Treatment (structure) 01. B-13-0870	4,750.000 SF	_____.	_____.
0112	520.8000 Concrete Collars for Pipe	9.000 EACH	_____.	_____.
0114	522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	1.000 EACH	_____.	_____.
0116	601.0409 Concrete Curb & Gutter 30-Inch Type A	937.000 LF	_____.	_____.
0118	601.0411 Concrete Curb & Gutter 30-Inch Type D	235.000 LF	_____.	_____.
0120	601.0600 Concrete Curb Pedestrian	193.000 LF	_____.	_____.
0122	602.0410 Concrete Sidewalk 5-Inch	15,790.000 SF	_____.	_____.
0124	602.0420 Concrete Sidewalk 7-Inch	3,790.000 SF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20191210006 Project(s): 5992-10-31, 5992-10-32, 5992-10-33

Federal ID(s): WISC 2019771, WISC 2019772, 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
0126	602.0515 Curb Ramp Detectable Warning Field Natural Patina	352.000 SF	_____.	_____.
0128	603.8000 Concrete Barrier Temporary Precast Delivered	1,259.000 LF	_____.	_____.
0130	603.8125 Concrete Barrier Temporary Precast Installed	1,259.000 LF	_____.	_____.
0132	606.0300 Riprap Heavy	23.000 CY	_____.	_____.
0134	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	356.000 LF	_____.	_____.
0136	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	1,003.000 LF	_____.	_____.
0138	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	205.000 LF	_____.	_____.
0140	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	665.000 LF	_____.	_____.
0142	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	40.000 LF	_____.	_____.
0144	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	576.000 LF	_____.	_____.
0146	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	402.000 LF	_____.	_____.
0148	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	59.000 LF	_____.	_____.
0150	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	8.000 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0152	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	318.000 LF	_____.	_____.
0154	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	465.000 LF	_____.	_____.
0156	611.0420 Reconstructing Manholes	2.000 EACH	_____.	_____.
0158	611.0430 Reconstructing Inlets	3.000 EACH	_____.	_____.
0160	611.0606 Inlet Covers Type B	1.000 EACH	_____.	_____.
0162	611.0609 Inlet Covers Type B-A	3.000 EACH	_____.	_____.
0164	611.0612 Inlet Covers Type C	2.000 EACH	_____.	_____.
0166	611.0642 Inlet Covers Type MS	1.000 EACH	_____.	_____.
0168	611.0666 Inlet Covers Type Z	6.000 EACH	_____.	_____.
0170	611.2004 Manholes 4-FT Diameter	1.000 EACH	_____.	_____.
0172	611.2005 Manholes 5-FT Diameter	4.000 EACH	_____.	_____.
0174	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.	_____.
0176	611.2066 Manholes 6x6-FT	6.000 EACH	_____.	_____.
0178	611.3003 Inlets 3-FT Diameter	8.000 EACH	_____.	_____.
0180	611.3004 Inlets 4-FT Diameter	11.000 EACH	_____.	_____.
0182	611.3220 Inlets 2x2-FT	1.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0184	611.3230 Inlets 2x3-FT	18.000 EACH	_____.	_____.
0186	611.3901 Inlets Median 1 Grate	1.000 EACH	_____.	_____.
0188	611.8120.S Cover Plates Temporary	17.000 EACH	_____.	_____.
0190	611.9710 Salvaged Inlet Covers	6.000 EACH	_____.	_____.
0192	611.9800.S Pipe Grates 01. STA 221+55 NB	1.000 EACH	_____.	_____.
0194	612.0406 Pipe Underdrain Wrapped 6-Inch	2,780.000 LF	_____.	_____.
0196	614.2300 MGS Guardrail 3	107.000 LF	_____.	_____.
0198	614.2620 MGS Guardrail Terminal Type 2	1.000 EACH	_____.	_____.
0200	616.0206 Fence Chain Link 6-FT	1,343.000 LF	_____.	_____.
0202	616.0700.S Fence Safety	3,100.000 LF	_____.	_____.
0204	618.0100 Maintenance And Repair of Haul Roads (project) 01. 5992-10-31	1.000 EACH	_____.	_____.
0206	618.0100 Maintenance And Repair of Haul Roads (project) 02. 5992-10-32	1.000 EACH	_____.	_____.
0208	619.1000 Mobilization	1.000 EACH	_____.	_____.
0210	620.0200 Concrete Median Blunt Nose	79.000 SF	_____.	_____.
0212	620.0300 Concrete Median Sloped Nose	741.000 SF	_____.	_____.
0214	621.0100 Landmark Reference Monuments	2.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0216	623.0200 Dust Control Surface Treatment	35,400.000 SY	_____.	_____.
0218	624.0100 Water	371.000 MGAL	_____.	_____.
0220	627.0200 Mulching	790.000 SY	_____.	_____.
0222	628.1504 Silt Fence	4,100.000 LF	_____.	_____.
0224	628.1520 Silt Fence Maintenance	4,100.000 LF	_____.	_____.
0226	628.1905 Mobilizations Erosion Control	12.000 EACH	_____.	_____.
0228	628.1910 Mobilizations Emergency Erosion Control	12.000 EACH	_____.	_____.
0230	628.2006 Erosion Mat Urban Class I Type A	11,600.000 SY	_____.	_____.
0232	628.7005 Inlet Protection Type A	54.000 EACH	_____.	_____.
0234	628.7015 Inlet Protection Type C	28.000 EACH	_____.	_____.
0236	628.7020 Inlet Protection Type D	33.000 EACH	_____.	_____.
0238	628.7504 Temporary Ditch Checks	20.000 LF	_____.	_____.
0240	628.7560 Tracking Pads	10.000 EACH	_____.	_____.
0242	629.0210 Fertilizer Type B	9.040 CWT	_____.	_____.
0244	630.0130 Seeding Mixture No. 30	40.000 LB	_____.	_____.
0246	630.0140 Seeding Mixture No. 40	130.000 LB	_____.	_____.
0248	630.0200 Seeding Temporary	40.000 LB	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0250	630.0500 Seed Water	400.000 MGAL	_____.	_____.
0252	631.0300 Sod Water	110.000 MGAL	_____.	_____.
0254	631.1000 Sod Lawn	4,200.000 SY	_____.	_____.
0256	634.0612 Posts Wood 4x6-Inch X 12-FT	1.000 EACH	_____.	_____.
0258	634.0620 Posts Wood 4x6-Inch X 20-FT	5.000 EACH	_____.	_____.
0260	637.1220 Signs Type I Reflective SH	371.000 SF	_____.	_____.
0262	637.2210 Signs Type II Reflective H	352.740 SF	_____.	_____.
0264	637.2215 Signs Type II Reflective H Folding	6.250 SF	_____.	_____.
0266	637.2230 Signs Type II Reflective F	54.000 SF	_____.	_____.
0268	638.2102 Moving Signs Type II	15.000 EACH	_____.	_____.
0270	638.2602 Removing Signs Type II	90.000 EACH	_____.	_____.
0272	638.3000 Removing Small Sign Supports	26.000 EACH	_____.	_____.
0274	638.4000 Moving Small Sign Supports	3.000 EACH	_____.	_____.
0290	641.8100 Overhead Sign Support (structure) 08. S-13-0514	LS	LUMP SUM	_____.
0292	641.8100 Overhead Sign Support (structure) 09. S-13-0515	LS	LUMP SUM	_____.
0294	641.8100 Overhead Sign Support (structure) 11. S-13-0517	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0296	641.8100 Overhead Sign Support (structure) 12. S-13-0518	LS	LUMP SUM	_____.
0298	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0300	643.0300 Traffic Control Drums	58,400.000 DAY	_____.	_____.
0302	643.0410 Traffic Control Barricades Type II	4,000.000 DAY	_____.	_____.
0304	643.0420 Traffic Control Barricades Type III	7,100.000 DAY	_____.	_____.
0306	643.0500 Traffic Control Flexible Tubular Marker Posts	670.000 EACH	_____.	_____.
0308	643.0600 Traffic Control Flexible Tubular Marker Bases	670.000 EACH	_____.	_____.
0310	643.0705 Traffic Control Warning Lights Type A	10,800.000 DAY	_____.	_____.
0312	643.0715 Traffic Control Warning Lights Type C	3,600.000 DAY	_____.	_____.
0314	643.0800 Traffic Control Arrow Boards	1,300.000 DAY	_____.	_____.
0316	643.0900 Traffic Control Signs	50,800.000 DAY	_____.	_____.
0318	643.0920 Traffic Control Covering Signs Type II	9.000 EACH	_____.	_____.
0320	643.1000 Traffic Control Signs Fixed Message	179.000 SF	_____.	_____.
0322	643.1050 Traffic Control Signs PCMS	940.000 DAY	_____.	_____.
0324	643.1070 Traffic Control Cones 42-Inch	340.000 DAY	_____.	_____.
0326	643.5000 Traffic Control	2.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0328	644.1810 Temporary Pedestrian Barricade	3,800.000 LF	_____.	_____.
0330	645.0105 Geotextile Type C	990.000 SY	_____.	_____.
0332	645.0120 Geotextile Type HR	58.000 SY	_____.	_____.
0334	646.1020 Marking Line Epoxy 4-Inch	1,206.000 LF	_____.	_____.
0336	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	900.000 LF	_____.	_____.
0338	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	50.000 LF	_____.	_____.
0340	646.3020 Marking Line Epoxy 8-Inch	4,553.000 LF	_____.	_____.
0342	646.3555 Marking Line Grooved Contrast Permanent Tape 8-Inch	922.000 LF	_____.	_____.
0344	646.5020 Marking Arrow Epoxy	14.000 EACH	_____.	_____.
0346	646.5120 Marking Word Epoxy	11.000 EACH	_____.	_____.
0348	646.6120 Marking Stop Line Epoxy 18-Inch	54.000 LF	_____.	_____.
0350	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,703.000 LF	_____.	_____.
0352	646.8120 Marking Curb Epoxy	194.000 LF	_____.	_____.
0354	646.8220 Marking Island Nose Epoxy	10.000 EACH	_____.	_____.
0356	646.9000 Marking Removal Line 4-Inch	11,698.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0358	646.9010 Marking Removal Line Water Blasting 4-Inch	1,259.000 LF	_____.	_____.
0360	646.9100 Marking Removal Line 8-Inch	2,736.000 LF	_____.	_____.
0362	646.9110 Marking Removal Line Water Blasting 8-Inch	1,033.000 LF	_____.	_____.
0364	646.9200 Marking Removal Line Wide	460.000 LF	_____.	_____.
0366	646.9210 Marking Removal Line Water Blasting Wide	48.000 LF	_____.	_____.
0368	646.9300 Marking Removal Special Marking	4.000 EACH	_____.	_____.
0370	646.9310 Marking Removal Special Marking Water Blasting	13.000 EACH	_____.	_____.
0372	649.0105 Temporary Marking Line Paint 4-Inch	46,358.000 LF	_____.	_____.
0374	649.0150 Temporary Marking Line Removable Tape 4-Inch	1,352.000 LF	_____.	_____.
0376	649.0205 Temporary Marking Line Paint 8-Inch	11,049.000 LF	_____.	_____.
0378	649.0250 Temporary Marking Line Removable Tape 8-Inch	321.000 LF	_____.	_____.
0380	649.0505 Temporary Marking Arrow Paint	11.000 EACH	_____.	_____.
0382	649.0550 Temporary Marking Arrow Removable Tape	3.000 EACH	_____.	_____.
0384	649.0605 Temporary Marking Word Paint	11.000 EACH	_____.	_____.
0386	649.0650 Temporary Marking Word Removable Tape	2.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0388	649.0805 Temporary Marking Stop Line Paint 18-Inch	1,414.000 LF	_____.	_____.
0390	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	82.000 LF	_____.	_____.
0392	650.4000 Construction Staking Storm Sewer	60.000 EACH	_____.	_____.
0394	650.4500 Construction Staking Subgrade	10,700.000 LF	_____.	_____.
0396	650.5000 Construction Staking Base	10,700.000 LF	_____.	_____.
0398	650.5500 Construction Staking Curb Gutter and Curb & Gutter	11,383.000 LF	_____.	_____.
0400	650.6500 Construction Staking Structure Layout (structure) 01. B-13-0870	LS	LUMP SUM	_____.
0402	650.6500 Construction Staking Structure Layout (structure) 02. R-13-0338	LS	LUMP SUM	_____.
0404	650.6500 Construction Staking Structure Layout (structure) 03. R-13-0339	LS	LUMP SUM	_____.
0406	650.6500 Construction Staking Structure Layout (structure) 04. R-13-0340	LS	LUMP SUM	_____.
0408	650.6500 Construction Staking Structure Layout (structure) 05. R-13-0341	LS	LUMP SUM	_____.
0410	650.6500 Construction Staking Structure Layout (structure) 06. R-13-0342	LS	LUMP SUM	_____.
0412	650.6500 Construction Staking Structure Layout (structure) 07. R-13-0343	LS	LUMP SUM	_____.
0414	650.6500 Construction Staking Structure Layout (structure) 08. S-13-0514	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0416	650.6500 Construction Staking Structure Layout (structure) 09. S-13-0515	LS	LUMP SUM	_____.
0418	650.6500 Construction Staking Structure Layout (structure) 10. S-13-0516	LS	LUMP SUM	_____.
0420	650.6500 Construction Staking Structure Layout (structure) 11. S-13-0517	LS	LUMP SUM	_____.
0422	650.6500 Construction Staking Structure Layout (structure) 12. S-13-0518	LS	LUMP SUM	_____.
0424	650.6500 Construction Staking Structure Layout (structure) 14. S-13-0522	LS	LUMP SUM	_____.
0426	650.6500 Construction Staking Structure Layout (structure) 15. S-13-0523	LS	LUMP SUM	_____.
0428	650.6500 Construction Staking Structure Layout (structure) 16. S-13-0525	LS	LUMP SUM	_____.
0430	650.6500 Construction Staking Structure Layout (structure) 17. S-13-0526	LS	LUMP SUM	_____.
0432	650.6500 Construction Staking Structure Layout (structure) 18. S-13-0527	LS	LUMP SUM	_____.
0434	650.6500 Construction Staking Structure Layout (structure) 19. S-13-0528	LS	LUMP SUM	_____.
0436	650.7000 Construction Staking Concrete Pavement	267.000 LF	_____.	_____.
0438	650.8500 Construction Staking Electrical Installations (project) 01. 5992-10-31	LS	LUMP SUM	_____.
0440	650.8500 Construction Staking Electrical Installations (project) 01. 5992-10-32	LS	LUMP SUM	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0442	650.9000 Construction Staking Curb Ramps	25.000 EACH	_____.	_____.
0444	650.9910 Construction Staking Supplemental Control (project) 01. 5992-10-31	LS	LUMP SUM	_____.
0446	650.9910 Construction Staking Supplemental Control (project) 02. 5992-10-32	LS	LUMP SUM	_____.
0448	650.9920 Construction Staking Slope Stakes	10,103.000 LF	_____.	_____.
0450	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	7,940.000 LF	_____.	_____.
0452	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	6,948.000 LF	_____.	_____.
0454	652.0325 Conduit Rigid Nonmetallic Schedule 80 2-Inch	1,405.000 LF	_____.	_____.
0456	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	2,945.000 LF	_____.	_____.
0458	652.0605 Conduit Special 2-Inch	100.000 LF	_____.	_____.
0460	652.0615 Conduit Special 3-Inch	200.000 LF	_____.	_____.
0462	652.0800 Conduit Loop Detector	2,880.000 LF	_____.	_____.
0464	653.0164 Pull Boxes Non-Conductive 24x42-Inch	20.000 EACH	_____.	_____.
0466	653.0208 Junction Boxes 8x8x8-Inch	8.000 EACH	_____.	_____.
0468	653.0905 Removing Pull Boxes	24.000 EACH	_____.	_____.
0470	654.0110 Concrete Bases Type 10	3.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0472	654.0113 Concrete Bases Type 13	3.000 EACH	_____.	_____.
0474	655.0230 Cable Traffic Signal 5-14 AWG	5,080.000 LF	_____.	_____.
0476	655.0240 Cable Traffic Signal 7-14 AWG	2,905.000 LF	_____.	_____.
0478	655.0250 Cable Traffic Signal 9-14 AWG	1,070.000 LF	_____.	_____.
0480	655.0260 Cable Traffic Signal 12-14 AWG	2,910.000 LF	_____.	_____.
0482	655.0525 Electrical Wire Traffic Signals 6 AWG	1,510.000 LF	_____.	_____.
0484	655.0615 Electrical Wire Lighting 10 AWG	5,280.000 LF	_____.	_____.
0486	655.0620 Electrical Wire Lighting 8 AWG	10,962.000 LF	_____.	_____.
0488	655.0625 Electrical Wire Lighting 6 AWG	32,886.000 LF	_____.	_____.
0490	655.0700 Loop Detector Lead In Cable	2,900.000 LF	_____.	_____.
0492	655.0800 Loop Detector Wire	7,915.000 LF	_____.	_____.
0494	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. 209+21.85	LS	LUMP SUM	_____.
0496	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. 225+39.46 NB	LS	LUMP SUM	_____.
0498	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. 218+14.39	LS	LUMP SUM	_____.
0500	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. 208+65.57	LS	LUMP SUM	_____.
0502	657.0100 Pedestal Bases	17.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0504	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	51.000 EACH	_____.	_____.
0506	657.0345 Poles Type 9	3.000 EACH	_____.	_____.
0508	657.0355 Poles Type 12	3.000 EACH	_____.	_____.
0510	657.0420 Traffic Signal Standards Aluminum 13-FT	17.000 EACH	_____.	_____.
0512	657.0530 Monotube Arms 30-FT	3.000 EACH	_____.	_____.
0514	657.0535 Monotube Arms 35-FT	3.000 EACH	_____.	_____.
0516	657.0810 Luminaire Arms Steel 10-FT	42.000 EACH	_____.	_____.
0518	658.0173 Traffic Signal Face 3S 12-Inch	57.000 EACH	_____.	_____.
0520	658.0174 Traffic Signal Face 4S 12-Inch	6.000 EACH	_____.	_____.
0522	658.0416 Pedestrian Signal Face 16-Inch	26.000 EACH	_____.	_____.
0524	658.0500 Pedestrian Push Buttons	20.000 EACH	_____.	_____.
0526	658.5069 Signal Mounting Hardware (location) 01. 225+39.64 NB	LS	LUMP SUM	_____.
0528	658.5069 Signal Mounting Hardware (location) 02. 218+14.39 NB	LS	LUMP SUM	_____.
0530	658.5069 Signal Mounting Hardware (location) 03. 208+74.39 NB	LS	LUMP SUM	_____.
0532	659.1115 Luminaires Utility LED A	46.000 EACH	_____.	_____.
0534	659.1120 Luminaires Utility LED B	4.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0536	678.0072 Install Fiber Optic Cable Outdoor Plant 72-CT	5,608.000 LF	_____.	_____.
0538	690.0150 Sawing Asphalt	8,051.000 LF	_____.	_____.
0540	690.0250 Sawing Concrete	13,045.000 LF	_____.	_____.
0542	715.0415 Incentive Strength Concrete Pavement	500.000 DOL	1.00000	500.00
0544	715.0502 Incentive Strength Concrete Structures	5,376.000 DOL	1.00000	5,376.00
0546	740.0440 Incentive IRI Ride	6,570.000 DOL	1.00000	6,570.00
0548	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	600.000 HRS	5.00000	3,000.00
0550	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	600.000 HRS	5.00000	3,000.00
0552	SPV.0035 Special 450. Removal of Excess Amounts of Boulders For Water Main Installation	115.000 CY	_____.	_____.
0554	SPV.0045 Special 001. Temporary Crosswalk Access North & East Legs Odana Road	290.000 DAY	_____.	_____.
0556	SPV.0045 Special 002. Temporary Crosswalk Access North Leg Gammon Place	290.000 DAY	_____.	_____.
0558	SPV.0060 Special 001. Root Pruning Existing Terrace Trees	14.000 EACH	_____.	_____.
0560	SPV.0060 Special 002. Precast Sign Post Base	23.000 EACH	_____.	_____.
0562	SPV.0060 Special 100. Temporary Drainage Cover for Existing Inlet or Manhole	6.000 EACH	_____.	_____.



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Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0564	SPV.0060 Special 101. Temporary Drainage Cover for Proposed Inlet or Manhole	13.000 EACH	_____.	_____.
0566	SPV.0060 Special 102. Temporarily Drain Between Existing SS Pipe & Proposed SS Pipe	9.000 EACH	_____.	_____.
0568	SPV.0060 Special 103. Temporarily Drain Between Existing SS Pipe & Proposed SS Structure	3.000 EACH	_____.	_____.
0570	SPV.0060 Special 104. Temporary Inlet Connection to Existing Storm Sewer Pipe	2.000 EACH	_____.	_____.
0572	SPV.0060 Special 105. Inlets 5-FT Diameter	5.000 EACH	_____.	_____.
0574	SPV.0060 Special 106. Inlets 6x6-FT	1.000 EACH	_____.	_____.
0576	SPV.0060 Special 107. Private Storm Sewer Reconnect	4.000 EACH	_____.	_____.
0578	SPV.0060 Special 108. Manhole Covers Type J Special	12.000 EACH	_____.	_____.
0580	SPV.0060 Special 109. Inlet Covers Type H Special	32.000 EACH	_____.	_____.
0582	SPV.0060 Special 250. Install City Provided Sign	10.000 EACH	_____.	_____.
0584	SPV.0060 Special 251. Sign Post Base for Concrete Installation	2.000 EACH	_____.	_____.
0586	SPV.0060 Special 300. Special Marking Arrow Epoxy	29.000 EACH	_____.	_____.
0588	SPV.0060 Special 301. Special Marking Word Epoxy	14.000 EACH	_____.	_____.
0590	SPV.0060 Special 350. Electrical Pullbox Type I	15.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0592	SPV.0060 Special 351. Electrical Pullbox Type III	12.000 EACH	_____.	_____.
0594	SPV.0060 Special 352. Electrical Pullbox Type V	24.000 EACH	_____.	_____.
0596	SPV.0060 Special 353. Electrical Pullbox Type VII	5.000 EACH	_____.	_____.
0598	SPV.0060 Special 354. Concrete Bases Type G	17.000 EACH	_____.	_____.
0600	SPV.0060 Special 355. Concrete Bases Type LB-2	11.000 EACH	_____.	_____.
0602	SPV.0060 Special 356. Concrete Bases Type LB-3	41.000 EACH	_____.	_____.
0604	SPV.0060 Special 357. Concrete Bases Type LB-8	10.000 EACH	_____.	_____.
0606	SPV.0060 Special 358. Concrete Bases Type M	2.000 EACH	_____.	_____.
0608	SPV.0060 Special 359. Concrete Bases Type P	2.000 EACH	_____.	_____.
0610	SPV.0060 Special 360. Concrete Bases Offset	2.000 EACH	_____.	_____.
0612	SPV.0060 Special 368. Pole 20-Foot, 11 Gauge, Black, Double Fixture	1.000 EACH	_____.	_____.
0614	SPV.0060 Special 369. Pole 20-Foot, 7 Gauge	9.000 EACH	_____.	_____.
0616	SPV.0060 Special 370. Pole 30-Foot, 7 Gauge Single Simplex	1.000 EACH	_____.	_____.
0618	SPV.0060 Special 371. Pole 30-Foot, 11 Gauge Single Simplex	40.000 EACH	_____.	_____.
0620	SPV.0060 Special 372. Pole 20-Foot, 11 Gauge, Black, Single Fixture	10.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0622	SPV.0060 Special 373. Pole 30-Foot, 11 Gauge, Black, Twin Simplex	1.000 EACH	_____.	_____.
0624	SPV.0060 Special 374. Luminaires Path and Mounting Bracket	11.000 EACH	_____.	_____.
0626	SPV.0060 Special 375. Traffic Signal Trombone Arms Aluminum 22-Foot	3.000 EACH	_____.	_____.
0628	SPV.0060 Special 376. Traffic Signal Trombone Arms Aluminum 18-Foot	2.000 EACH	_____.	_____.
0630	SPV.0060 Special 377. Trombone Arms 15-FT	5.000 EACH	_____.	_____.
0632	SPV.0060 Special 378. Traffic Signal Control Cabinet	2.000 EACH	_____.	_____.
0634	SPV.0060 Special 380. Lighting Control Cabinet	2.000 EACH	_____.	_____.
0636	SPV.0060 Special 400. Malfunction Management Unit (MMU)	2.000 EACH	_____.	_____.
0638	SPV.0060 Special 401. Traffic Signal Ethernet Switch	2.000 EACH	_____.	_____.
0640	SPV.0060 Special 402. Backplates Signal Face, 3-Section 12-Inch)	57.000 EACH	_____.	_____.
0642	SPV.0060 Special 403. Backplates Signal Face, 4-Section 12-Inch)	6.000 EACH	_____.	_____.
0644	SPV.0060 Special 404. Luminaires Underpass LED 80W	14.000 EACH	_____.	_____.
0646	SPV.0060 Special 405. Luminaires Underpass LED 160W	8.000 EACH	_____.	_____.
0648	SPV.0060 Special 407. Traffic Signal Controller	2.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0650	SPV.0060 Special 450. Furnish and Install 16-Inch Water Valve	1.000 EACH	_____.	_____.
0652	SPV.0060 Special 451. Cut-In Or Connect To Existing Water System	2.000 EACH	_____.	_____.
0654	SPV.0060 Special 452. Adjust Water Valve Box Sections	30.000 EACH	_____.	_____.
0656	SPV.0060 Special 500. Adjust MMSD SAS Special	1.000 EACH	_____.	_____.
0658	SPV.0060 Special 550. Utility Line Opening (ULO)	30.000 EACH	_____.	_____.
0660	SPV.0060 Special 650. Fluid Thermal Backfill	3.000 EACH	_____.	_____.
0662	SPV.0090 Special 001. Concrete Curb & Gutter 18-Inch Type D Special	801.000 LF	_____.	_____.
0664	SPV.0090 Special 002. Concrete Curb & Gutter 24-Inch Type A Special	361.000 LF	_____.	_____.
0666	SPV.0090 Special 003. Concrete Curb & Gutter 24-Inch Type D Special	3,870.000 LF	_____.	_____.
0668	SPV.0090 Special 004. Concrete Gutter 24-Inch Type D Special	521.000 LF	_____.	_____.
0670	SPV.0090 Special 005. Concrete Curb & Gutter 30-Inch Type D Special	4,465.000 LF	_____.	_____.
0672	SPV.0090 Special 006. Asphaltic Curb Temporary	1,100.000 LF	_____.	_____.
0674	SPV.0090 Special 007. Construction Staking Bike Path	4,382.000 LF	_____.	_____.
0676	SPV.0090 Special 250. Sign Post	102.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0678	SPV.0090 Special 251. Reflective Sign Post	171.000 LF	_____.	_____.
0680	SPV.0090 Special 300. Marking Line Epoxy 6-Inch	2,091.000 LF	_____.	_____.
0682	SPV.0090 Special 301. Marking Stop Line Epoxy 24-Inch	471.000 LF	_____.	_____.
0684	SPV.0090 Special 352. Electrical Wire Lighting, 14-3 Grounded	3,264.000 LF	_____.	_____.
0686	SPV.0090 Special 450. Furnish and Install 16-Inch Pipe & Fittings	90.000 LF	_____.	_____.
0688	SPV.0090 Special 451. Furnish and Install 2-Inch Foam Board Insulation	120.000 LF	_____.	_____.
0690	SPV.0090 Special 600. Railing Steel B-13-0870	53.000 LF	_____.	_____.
0692	SPV.0090 Special 650. Railing Steel R-13-0338	96.000 LF	_____.	_____.
0694	SPV.0090 Special 651. Railing Steel R-13-0339	293.000 LF	_____.	_____.
0696	SPV.0090 Special 652. Railing Steel R-13-0340	288.000 LF	_____.	_____.
0698	SPV.0090 Special 653. Railing Steel R-13-0341	303.000 LF	_____.	_____.
0700	SPV.0090 Special 654. Railing Steel R-13-0342	678.000 LF	_____.	_____.
0702	SPV.0090 Special 655. Railing Steel R-13-0343	490.000 LF	_____.	_____.
0704	SPV.0105 Special 002. Temporary Bus Stop Access Substages 1B & 1C	LS	LUMP SUM	_____.
0706	SPV.0105 Special 003. Temporary Bus Stop Access Substages 1D & 1E	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0708	SPV.0105 Special 004. Temporary Bus Stop Access Substages 2A, 2B, & 2C	LS	LUMP SUM	_____.
0710	SPV.0105 Special 005. Temporary Bus Stop Access Substage 2D	LS	LUMP SUM	_____.
0712	SPV.0105 Special 006. Project Dewatering (ID 5992-10-31)	LS	LUMP SUM	_____.
0714	SPV.0105 Special 007. Project Dewatering (ID 5992-10-32)	LS	LUMP SUM	_____.
0716	SPV.0105 Special 008. Project Dewatering (ID 5992-10-33)	LS	LUMP SUM	_____.
0718	SPV.0105 Special 100. Temp Movable SS Trunkline Drainage Conduit Connected & Sealed At Ends	LS	LUMP SUM	_____.
0720	SPV.0105 Special 101. Temp Drain Existing Inlet To Prop Inlet, STA 222+60'NB' to STA 222+25'NB'	LS	LUMP SUM	_____.
0722	SPV.0105 Special 102. Temporary Inlet Connection To Existing Inlet STA 207+11'NB'	LS	LUMP SUM	_____.
0724	SPV.0105 Special 103. Temporary Inlet Connection To Existing and Proposed SS Pipe STA 224+81'NB'	LS	LUMP SUM	_____.
0726	SPV.0105 Special 104. Storm Sewer Tap	LS	LUMP SUM	_____.
0728	SPV.0105 Special 350. Street Light Removal	LS	LUMP SUM	_____.
0730	SPV.0105 Special 351. Temporary Lighting	LS	LUMP SUM	_____.
0732	SPV.0105 Special 400. Temporary Vehicle Detection (Gammon Rd - Gammon Pl)	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0734	SPV.0105 Special 401. Temporary Vehicle Detection (Gammon Road - Odana Road)	LS	LUMP SUM	_____.
0736	SPV.0105 Special 402. Temporary Vehicle Detection (Gammon Rd - WB Beltline Ramp)	LS	LUMP SUM	_____.
0738	SPV.0105 Special 403. Temporary Traffic Signals (Gammon Road - Gammon PI)	LS	LUMP SUM	_____.
0740	SPV.0105 Special 404. Temporary Traffic Signals (Gammon Road - Odana Rd)	LS	LUMP SUM	_____.
0742	SPV.0105 Special 405. Temporary Traffic Signals (Gammon Road - WB Beltline Ramp)	LS	LUMP SUM	_____.
0744	SPV.0105 Special 406. Traffic Signal Removal	LS	LUMP SUM	_____.
0746	SPV.0105 Special 407. Optical Signal Preempt	LS	LUMP SUM	_____.
0748	SPV.0105 Special 450. Construction Staking Water Main	LS	LUMP SUM	_____.
0750	SPV.0105 Special 500. Construction Staking Sanitary Sewer	LS	LUMP SUM	_____.
0752	SPV.0105 Special 700. Overhead Sign Structure Removal (S-13-3063)	LS	LUMP SUM	_____.
0754	SPV.0105 Special 701. Overhead Sign Structure Removal (S-13-3064)	LS	LUMP SUM	_____.
0756	SPV.0105 Special 702. Overhead Sign Structure Removal (S-13-3065)	LS	LUMP SUM	_____.
0758	SPV.0105 Special 703. Overhead Sign Structure Removal (S-13-3066)	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0760	SPV.0105 Special 704. Overhead Sign Structure Removal (S-13-3067)	LS	LUMP SUM	_____.
0762	SPV.0105 Special 705. Overhead Sign Structure Removal (S-13-3068)	LS	LUMP SUM	_____.
0764	SPV.0105 Special 706. Overhead Sign Structure Removal (S-13-3069)	LS	LUMP SUM	_____.
0766	SPV.0165 Special 001. Colored Crosswalk Green	2,520.000 SF	_____.	_____.
0768	SPV.0165 Special 650. Wall Modular Block Gravity R-13-0341	3,545.000 SF	_____.	_____.
0770	SPV.0165 Special 651. Wall Modular Block Gravity R-13-0343	2,290.000 SF	_____.	_____.
0772	SPV.0165 Special 652. Wall Modular Block Mechanically Stabilized Earth R-13-0338	1,075.000 SF	_____.	_____.
0774	SPV.0165 Special 653. Wall Modular Block Mechanically Stabilized Earth R-13-0339	2,410.000 SF	_____.	_____.
0776	SPV.0165 Special 654. Wall Modular Block Mechanically Stabilized Earth R-13-0340	2,330.000 SF	_____.	_____.
0778	SPV.0165 Special 655. Wall Modular Block Mechanically Stabilized Earth R-13-0342	3,675.000 SF	_____.	_____.
0780	SPV.0180 Special 001. Architectural Concrete Pavement 5-Inch	3,870.000 SY	_____.	_____.
0782	SPV.0180 Special 002. Topsoil Special	15,800.000 SY	_____.	_____.
0784	204.0126.S Removing Asphaltic Longitudinal Notched Wedge Joint Milling	10,800.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0786	641.8100 Overhead Sign Support (structure) 10. S-13-0516	LS	LUMP SUM	_____.
0788	641.8100 Overhead Sign Support (structure) 14. S-13-0522	LS	LUMP SUM	_____.
0790	641.8100 Overhead Sign Support (structure) 15. S-13-0523	LS	LUMP SUM	_____.
0792	641.8100 Overhead Sign Support (structure) 16. S-13-0525	LS	LUMP SUM	_____.
0794	641.8100 Overhead Sign Support (structure) 17. S-13-0526	LS	LUMP SUM	_____.
0796	641.8100 Overhead Sign Support (structure) 18. S-13-0527	LS	LUMP SUM	_____.
0798	641.8100 Overhead Sign Support (structure) 19. S-13-0528	LS	LUMP SUM	_____.
0800	SPV.0085 Special 001. No Mow Seed Mix	218.000 LB	_____.	_____.
0802	SPV.0195 Special 001. Cold Patch	10.000 TON	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

