HIGHWAY WORK PROPOSAL

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

Proposal Number: 027

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
St Croix	8080-02-72	WISC 2021109	City Of Hudson, Second Street; Coulee Rd/Buckeye St Intersection	STH 035
St Croix	8080-02-60	WISC 2021108	City Of Hudson, Second Street; Front Street To Vine Street	STH 035
St Croix	8080-05-70	WISC 2021111	Village North Hudson, 6th Street; Lake Mallalieu Bridge - Sommers St	STH 035
St Croix	8080-05-72	N/A	Village North Hudson, 6th Street; Lake Mallalieu Bridge - Sommers St	STH 035
St Croix	8080-07-70	WISC 2021112	City Of Hudson, Second Street; Vine Street To Willow River	STH 035
St Croix	8080-07-72	N/A	City Of Hudson, Second Street; Vine Street To Willow River	STH 035
St Croix	8080-02-73	WISC 2021110	V North Hudson, 6th Street North; Sommers Street To North End Road	STH 035
St Croix	8080-02-61	N/A	C Hudson, Second Street; Front Street To Vine Street	STH 035

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: $290,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: March 9, 2021 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time November 30, 2021	
Assigned Disadvantaged Business Enterprise Goal 3%	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)

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

(Date Commission Expires)
Notary Seal

(Bidder Signature)

(Print or Type Bidder Name)

(Bidder Title)

For Department Use Only

Type of Work:
Excavation, Base, Concrete Pavement, HMA Pavement, Asphaltic Surface, Curb and Gutter, Sidewalk, Signs, Pavement Marking, Plantings, Street Lighting, Traffic Signals, Storm Sewer, Water and Sanitary, Bridge Rehabilitation, Retaining Wall

Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

The bidder, signing and submitting this proposal, agrees and declares as a condition thereof, to be bound by the following conditions and requirements.

If the bidder has a corporate relationship with the proposal design engineering company, the bidder declares that it did not obtain any facts, data, or other information related to this proposal from the design engineering company that was not available to all bidders.

The bidder declares that they have carefully examined the site of, and the proposal, plans, specifications and contract forms for the work contemplated, and it is assumed that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the specifications, special provisions and contract. It is mutually agreed that submission of a proposal shall be considered conclusive evidence that the bidder has made such examination.

The bidder submits herewith a proposal guaranty in proper form and amount payable to the party as designated in the advertisement inviting proposals, to be retained by and become the property of the owner of the work in the event the undersigned shall fail to execute the contract and contract bond and return the same to the office of the engineer within fourteen (14) days after having been notified in writing to do so; otherwise to be returned.

The bidder declares that they understand that the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the specifications.

The bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amounts in full payment of said work.

The bidder declares that all of the said work will be performed at their own proper cost and expense, that they will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications and the approved plans for the work together with all standard and special designs that may be designed on such plans, and the special provisions in the contract of which this proposal will become a part, if and when accepted. The bidder further agrees that the applicable specifications and all plans and working drawings are made a part hereof, as fully and completely as if attached hereto.

The bidder, if awarded the contract, agrees to begin the work not later than ten (10) days after the date of written notification from the engineer to do so, unless otherwise stipulated in the special provisions.

The bidder declares that if they are awarded the contract, they will execute the contract agreement and begin and complete the work within the time named herein, and they will file a good and sufficient surety bond for the amount of the contract for performance and also for the full amount of the contract for payment.

The bidder, if awarded the contract, shall pay all claims as required by Section 779.14, Statutes of Wisconsin, and shall be subject to and discharge all liabilities for injuries pursuant to Chapter 102 of the Statutes of Wisconsin, and all acts amendatory thereto. They shall further be responsible for any damages to property or injury to persons occurring through their own negligence or that of their employees or agents, incident to the performance of work under this contract, pursuant to the Standard Specifications for Road and Bridge Construction applicable to this contract.

In connection with the performance of work under this contract, the contractor agrees to comply with all applicable state and federal statutes relating to non-discrimination in employment. No otherwise qualified person shall be excluded from employment or otherwise be subject to discrimination in employment in any manner on the basis of age, race, religion, color, gender, national origin or ancestry, disability, arrest or conviction record (in keeping with s.111.32), sexual orientation, marital status, membership in the military reserve, honesty testing, genetic testing, and outside use of lawful products. This provision shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor further agrees to ensure equal opportunity in employment to all applicants and employees and to take affirmative action to attain a representative workforce.

The contractor agrees to post notices and posters setting forth the provisions of the nondiscrimination clause, in a conspicuous and easily accessible place, available for employees and applicants for employment.

If a state public official (section 19.42, Stats.) or an organization in which a state public official holds at least a 10% interest is a party to this agreement, this contract is voidable by the state unless appropriate disclosure is made to the State of Wisconsin Ethics Board.

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

(1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:

1. Electronic bid on the internet.
2. Electronic bid on a printout with accompanying diskette or CD ROM.
3. Paper bid under a waiver of the electronic submittal requirements.

(2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

(3) The department will provide bidding information through the department's web site at:
https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

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

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

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

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

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

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

B Submitting Electronic Bids

B.1 On the Internet

(1) Do the following before submitting the bid:

1. Have a properly executed annual bid bond on file with the department.

2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.

(2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:

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

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

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

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

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

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

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

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

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

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

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

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

C Waiver of Electronic Submittal

(1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.

(2) Submit a schedule of items on paper conforming to section 102 of the standard specifications. The department charges the bidder a $75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."

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

1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
2. The bidder fails to pay the $75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the $75.
3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.

(4) In addition to the reasons specified in section 102 of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

Wisconsin Department of Transportation

DT1303 1/2006

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

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

(Signature of Attorney-in-Fact)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

Wisconsin Department of Transportation

DT1305 8/2003

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

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

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

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

(Signature of Authorized Contractor Representative) (Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value

DECEMBER 2000

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

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.

4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.

6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.

7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

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

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

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

(1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

(2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 8080-02-60, City of Hudson, Second Street, Front Street to Vine Street, STH 35, St. Croix County; 8080-05-70, Village of North Hudson, 6th Street, Lake Mallalieu Bridge to Sommers Street, STH 35, St. Croix County; 8080-07-70, City of Hudson, Second Street, Vine Street to Willow River, STH 35, St. Croix County; 8080-02-72, City of Hudson, Second Street, Coulee Road Intersection, STH 35, St. Croix County; 8080-02-73, Village of North Hudson, 6th Street, Sommers Street to North End Road, STH 35, St. Croix County; 8080-07-72, City of Hudson, Second Street, Vine Street to Willow River, STH 35 Sanitary Sewer and Water, St. Croix County; 8080-05-72, Village of North Hudson, 6th Street, Lake Mallalieu Bridge to Sommers Street, STH 35 Sanitary Sewer and Water, St. Croix County; 8080-02-61, City of Hudson, Second Street, Front Street to Vine Street, STH 35 Sanitary Sewer and Water, St. Croix 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, 2021 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 (20200629)

2. Scope of Work.

Project 8080-02-60

The work under this contract shall consist of joint repair, grading, base aggregate dense, concrete grinding, HMA pavement, concrete pavement, concrete curb and gutter, concrete sidewalk, permanent signing, pavement marking, lighting, storm sewer, traffic control, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Front Street and Vine Street in the City of Hudson.

Project 8080-05-70

The work under this contract shall consist of grading, base aggregate dense, concrete pavement, concrete curb and gutter, concrete sidewalk, storm sewer, bridge rehabilitation (polymer overlay), temporary and permanent traffic signals, traffic control, permanent signing, pavement marking, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Lake Mallalieu Bridge and Sommers Street in the Village of North Hudson.

Project 8080-07-70

The work under this contract shall consist of grading, base aggregate dense, concrete pavement, concrete curb and gutter, concrete sidewalk, storm sewer, temporary traffic signals, traffic control, permanent signing, pavement marking, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Vine Street and Willow River in the City of Hudson.

Project 8080-02-72

The work under this contract shall consist of grading, base aggregate dense, concrete pavement, concrete grinding, HMA pavement, curb and gutter, concrete sidewalk, temporary and permanent traffic signals, traffic control, pavement marking and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located at the Coulee Road Intersection in the City of Hudson.

Project 8080-02-73

The work under this contract shall consist of grading, base aggregate dense, asphalt milling, concrete curb and gutter, HMA pavement, traffic control, permanent signing, pavement marking and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Sommers Street and North End Road in the Village of North Hudson.

Project 8080-07-72

The work under this contract shall consist of sanitary sewer, water main, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Vine Street and Willow River in the City of Hudson.

Project 8080-05-72

The work under this contract shall consist of sanitary sewer, water main, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Lake Mallalieu Bridge and Sommers Street in the Village of North Hudson.

Project 8080-02-61

The work under this contract shall consist of sanitary sewer, water main, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. All work under this ID is located between Front Street and Vine Street in the City of Hudson.

104-005 (20090901)

3. Prosecution and Progress.

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

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

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

The completion of all work is based on an expedited work schedule and may require extraordinary forces and equipment. Construction activities are anticipated to be taking place at multiple areas throughout the project corridor at once.

All trees in the boulevard/terrace within the reconstruction area will be removed. No impacts to oak trees are anticipated on this project. If any removal of oak trees is required, they will need to be completely removed prior to May 10th. Complete removal means cutting of the tree and removal of roots. The construction project leader will notify the REC (Nick Schaff) and the DNR liaison (Amy Lesik) when removal will take place, as well as when the removal has been completed.

Interim Completions and Liquidated Damages

Construction on STH 35 from Front Street to Vine Street (Projects 8080-02-60, 8080-02-72, and 8080-02-61) is anticipated to start in late April or early May and be completed prior to August 1, 2021. Complete all construction operations as required in the plans and specifications with the exception of installation of light poles (if not available due to lead times) by this deadline.

If the contractor fails to complete the work necessary for STH 35 between Front Street and Vine Street (Projects 8080-02-60, 8080-02-72, and 8080-02-61) by 12:01 AM August 1, 2021, the department will assess the contractor $1700 in interim liquidated damages for each calendar day that the roadway remains closed after 12:01 AM, August 1, 2021. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

STH 35 between Division Street and Wisconsin St N Stage 1 work includes closing STH 35/Division St intersection and STH 35/North St intersection to complete the installation of storm sewer, sanitary sewer, and water main. The contractor will be allowed 7 consecutive calendar days of roadway closure to complete the work at both intersections.

If the contractor fails to complete STH 35 between Division Street and Wisconsin St N Stage 1 work to open within 7 consecutive calendar days, the department will assess the contractor $1700 in interim liquidated damages for each calendar day that the roadway remains closed beyond 7 consecutive calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

STH 35/South St intersection Stage 2 work includes closing to complete the installation of storm sewer, sanitary sewer, and water main. The contractor will be allowed 7 consecutive calendar days of roadway closure to complete the work.

If the contractor fails to complete STH 35/South St intersection Stage 2 work to open within 7 consecutive calendar days, the department will assess the contractor $1700 in interim liquidated damages for each calendar day that the roadway remains closed beyond 7 consecutive calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed according to standard spec 108.11.

Fish Spawning

There shall be no instream disturbance of the Willow River/Lake Mallalieu River as a result of construction activity under or for this contract, from September 15th to May 15th both dates inclusive, in order to avoid adverse impacts upon the spawning of fish.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

Migratory Birds

Swallow and other migratory birds' nests may be under the existing bridge. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act.

The nesting season for swallows and other birds is usually between May 1 and August 30. Either prevent active nests from becoming established or apply for a depredation permit from the US Fish and Wildlife Service for work that may disturb or destroy active nests. The need for a permit may be avoided by removing the existing bridge structure prior to nest occupation by birds or clearing nests from all structures before the nests become active in early spring. As a last resort, prevent birds from nesting by installing a suitable netting device on the remaining structure prior to nesting activity. Include the cost for preventing nesting in the cost of Concrete Masonry Deck Repair.

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).

In accordance 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.

Traffic will with be staged, closed to through traffic with a detour route, or temporary flaggers utilized depending on the segment of STH 35 that is being constructed. A detour route utilizing Interstate 94, Minnesota Trunk Highway (TH 95), TH 36, and STH 64 will be utilized for this project. The detour route shall be in place prior to the start of construction for the entirety of the project so that only local traffic is using the staged construction.

Pedestrian traffic throughout the STH 35 corridor is critical for businesses and residential access. Temporary pedestrian accommodations are required throughout the project corridor. Only close sidewalk on ½ of STH 35 (east or west) at a time (within the segment actively being worked on) to allow for pedestrian access on the opposite side. Limit sidewalk closures to only when imminent work at sidewalks is being performed (underground work, curb ramps, and sidewalk pavement) and provide for temporary curb ramps or sidewalk as needed for sidewalk that is to remain open unless not feasible as determined by the engineer. All temporary curb ramps will require detectable warning fields.

STH 35 between Front Street and Vine Street

This segment of STH 35 will utilize staged construction and will be open to a minimum of one lane in each direction. Parking will be temporarily be removed between Coulee Road. Temporary traffic signals will be installed at Coulee Road/Buckeye Street and Walnut Street.

Stage 1

Stage 1 traffic control will consist of closing the median lanes of STH 35 NB and SB according to SDD Traffic Control, Single Lane Closure, Non Freeway/Expressway. Traffic will be maintained on the outside lanes of STH 35. All intersections shall remain open according to SDD Traffic Control, Intersections within a Single Lane Closure except when actively completing work at the intersections. Coulee Road shall remain open at all times. During active work operations the contractor shall not close adjacent intersections concurrently. Turn lanes at intersections will not be provided, except for left turn lanes for STH 35 NB and SB at Coulee Road/Buckeye Street. Access shall be maintained at all driveways with the following exceptions, the driveway at Station 207+25 LT (Edina Realty South) will be restricted to right in/right out only, a left turn lane shall be provided for the driveway at Station 210+46 LT (Edina Realty North), and the driveway at Station 224+15 RT (Dairy Queen) shall be closed. The temporary closure of driveways shall be permissible with notice to the property owners during continuous diamond grinding and HMA paving operations. No roadway work taking place from Station 204+00 to 218+00 RT during this stage.

Stage 2

Stage 2 traffic control will consist of closing the outside lanes of STH 35 NB and SB according to SDD Traffic Control, Single Lane Closure, Non Freeway/Expressway. Traffic will be maintained on the median lanes of STH 35. All intersections shall remain open according to SDD Traffic Control, Intersections within a Single Lane Closure except when actively completing work at the intersections. The contractor shall close Coulee Road at STH 35 for a maximum of two nights between the hours of 7:00 PM and 6:00 AM for the purpose of diamond grinding and HMA paving. Except for during permitted nighttime closures, Coulee Road shall remain open at all times. During active work operations the contractor shall not close adjacent intersections concurrently. Turn lanes at intersections will not be provided, except for left turn lanes for STH 35 NB and SB at Coulee Road/Buckeye Street. Access shall be maintained at all driveways with the following exceptions,

the driveway at Station 207+25 LT (Edina Realty South) will be restricted to right in/right out only and the driveway at Station 224+15 RT (Dairy Queen) shall be closed. Work to reconstruct concrete driveways shall be completed half at a time while traffic is maintained on the other half. The temporary closure of driveways shall be permissible with notice to the property owners during continuous diamond grinding and HMA paving operations. Temporary ADA compliant pedestrian accommodations will be provided as necessary according to SDD Traffic Control, Pedestrian Accommodation when sidewalk closures are required. No roadway work taking place from Station 204+00 to 218+00 RT during this stage.

Stage 3

Stage 3 traffic control will consist of closing both of the existing lanes of STH 35 NB from Station 206+00 to 213+90. Traffic for STH 35 NB and SB will be maintained in a bidirectional configuration on the existing STH 35 SB lanes according to SDD Traffic Control, Two Lane Two Way Operation. The outside lane of STH 35 NB and the median lane of STH 35 SB between the south project limits and Station 221+50 will be closed according to SDD Traffic Control, Single Lane Closure, Non Freeway/Expressway and the STH 35 NB median lane will be shifted onto the STH 35 SB median lane according to SDD Traffic Control, Lane Shift, Multi-Lane Divided or One Way Traffic. Temporary concrete barrier will be placed along the existing STH 35 CL/right edge of the temporary STH 35 NB lane from Station 206+00 to Station 213+90. The temporary concrete barrier shall be flared back to the curb line to protect the blunt ends. Access to Front Street and to the driveways at Station 207+25 LT and Station 210+46 LT (Edina Realty) will be restricted to right in/right out only during this stage. Work in this stage will require the closure of the multi-use trail along the east side of STH 35 from 206+00 – 215+00. A temporary ADA compliant pedestrian crossing according to SDD Traffic Control, Pedestrian Accommodation will be provided at Station 205+00 for pedestrians to access the multi-use trail on the west side of STH 35 during this stage.

Vine Street to North End Road

STH 35 between Vine Street and North End Road shall be constructed in segments. Multiple segments may be constructed at the same time but no two adjacent segments in the City of Hudson or the Village of North Hudson may be constructed concurrently (i.e. Segments 1 and 2, 3 and 4, or 4 and 5 may not be constructed concurrently). Staged construction between Division Street and Wisconsin Street North may be constructed concurrently with adjacent segments. See Traffic Control Segment Overview in the plan set for segment areas.

STH 35 between Vine Street and Division Street (Segments 1 and 2)

STH 35 between Vine Street and Division Street will be closed to through traffic. Access to local residents shall be maintained. The entire section shall not be closed at the same time.

The contractor is limited to the following road closure segments along STH 35:

- Vine St to Myrtle St (Excludes Myrtle St intersection.)
- Myrtle St to Division St (Includes Myrtle St intersection and excludes Division St intersection.)

The segment from Myrtle Street to Division Street (excluding Division Street intersection) shall be constructed first. Underground utilities from St. Croix Street (including the intersection) to Division Street (excluding the intersection) shall be completed first.

Contractor shall provide temporary access to commercial and residential driveways when imminent work is not being completed. Contractor provided temporary accesses are incidental to the project.

Contractor shall provide temporary pedestrian access when imminent work is not being completed. Temporary curb ramps are required.

The contractor shall not disturb the adjacent roadway segment until the previous segment is paved and open to traffic.

Limit or minimize access closure to the assisted living facility (Croix View Apartments) entrance north of Myrtle Street intersection on the west side of STH 35. Allow temporary access on gravel to the facility. Provide daily drivable access (minimum of 10 ft) to the assisted living facility from 11:00 AM – 1:00 PM and 4:00 PM – 6:00 PM for meal deliveries. Provide drivable access to the assisted living facility each day when work is completed. The construction engineer may adjust the daily access times listed above, based on the needs of the facility. Limit or minimize sidewalk closure to the assisted living facility.

Provide a 72-hour written notice to the assisted living facility Manager for temporary driveway closure. The written notice shall include a description of the work and duration of the closure.

Pour the driveway apron for the assisted living facility half at a time to allow access. Pave one side (east or west of centerline) of STH 35 between Myrtle Street and St. Croix Street to allow for drivable access to the facility. Use a paving gap at Station 36+86 – 37+00 for the southbound lane of STH 35 to provide access during paving operations.

STH 35 between Division St and Wisconsin St N.

STH 35 between Division Street and Wisconsin St N shall be constructed utilizing staged construction including temporary short-term full closures and temporary traffic signals with a single lane of traffic. Access to local residents at Division Street and North Street shall be maintained. Access to the boat landing at Shop Road shall be maintained to the maximum extent possible.

Stage 1

Stage 1 work includes closing STH 35/Division St intersection and STH 35/North St intersection to complete the installation of storm sewer, sanitary sewer, and water main. The contractor shall provide a minimum 10’ wide access at all times to homes west of the intersections. All materials and manpower necessary to maintain residential access is incidental to the project. Roadway shall be brought up to gravel grade before reopening. Roadway closures to complete the work at both intersections shall not exceed 7 calendar days. Contractor shall provide drivable surface through Stage 3. Time and material necessary to maintain the drivable surface, including dust control is incidental to the project.

Stage 2

Stage 2 work includes closing STH 35/South St intersection to complete the installation of storm sewer, sanitary sewer, and water main. The roadway shall be brought up to gravel grade before reopening. Temporary signals will be installed at the following intersections STH 35/Division St, STH 35/North St/Shop Rd, and STH 35/South St. Roadway closure shall not exceed 7 calendar days. Time and material necessary to maintain the drivable surface, including dust control is incidental to the project.

Stage 3

Stage 3 work includes reconstructing the southbound lane of STH 35 from Division St to South St (including portions of both intersections) and northbound and southbound lanes from South St to Wisconsin St N (excluding Wisconsin St. N intersection). Single lane traffic will be maintained on the existing STH 35 northbound lane from Division St to South St with the use of temporary signals. The STH 35/Division St intersection and STH 35/North St intersection shall not be fully closed and will require paving gaps to allow for residential access. Stage 3 work also includes a bridge deck polymer overlay of the southbound lane and shoulder. Contractor shall provide temporary access to residential driveways when imminent work is not being completed. Contractor provided temporary accesses are incidental to the project. Time and material necessary to maintain the drivable surface, including dust control is incidental to the project.

Stage 4

Stage 4 work includes reconstructing the northbound lane of STH 35 from Division St to South St with intersection work at Division St intersection, Shop Rd intersection, and South St intersection. Shop Rd intersection shall not be fully closed and will require paving gaps to allow for commercial access. Single lane traffic will be maintained on the new southbound lane from Division St to South St with the use of temporary signals. Temporary signals will be maintained through Stage 4 and removed once the work is completed. The northbound and southbound STH 35 lanes north of South Rd up to Wisconsin St N shall remain closed through Stage 4. Stage 4 work also includes a bridge deck polymer overlay of the northbound lane and shoulder. The contractor shall provide access to residential driveways when imminent work is not being completed. Contractor provided temporary accesses are incidental to the project.

STH 35 between Wisconsin St N and North End Road (Segments 3, 4, and 5)

STH 35 between Wisconsin St N and Sommers Street will be closed to through traffic. Access to local residents shall be maintained to the maximum extent possible. The entire section shall not be closed at the same time. STH 35 from Sommers Street to North End Road shall remain open to a single lane of traffic with the use of flagging

The contractor is limited to the following road closure segments:

- Wisconsin St N to Monroe St (Includes Wisconsin St N intersection and excludes Monroe St intersection.)
- Monroe St to Michaelson St (Includes Monroe St intersection and Michaelson St intersection.)
- Michaelson St to Sommers St (Excludes Michaelson St intersection and includes Sommers St intersection.)
- Sommers St to North End Road (Excludes Sommers St and North End Road intersections)

Wisconsin St N and Monroe St intersections shall not be closed concurrently.

STH 35 between Sommers Street and North End road shall remain open to provide a minimum of one lane of traffic around construction operations with the use of flaggers. When roadway widening is occurring on the east side of STH 35 close the east shoulder.

Construction of STH 35 between Michaelson Street to Sommers Street and Sommers Street to North End Road may occur concurrently.

Contractor shall provide temporary access to commercial and residential driveways when imminent work is not being completed. Contractor provided temporary accesses are incidental to the project.

The contractor shall not disturb an adjacent roadway segment until the previous segment is paved and residents or businesses are able to use the roadway for access.

Temporary Regulatory Speed Limit Reduction

During engineer-approved regulatory speed limit reductions, install temporary speed limit signs on the inside and outside shoulders of divided roadways to enhance visibility. On two-lane two-way roadways, install temporary speed limit signs on shoulders. When construction activities impede the location of a post-mounted regulatory speed limit sign, relocate the sign for maximum visibility to motorists. If work last less than 7 days, mount the regulatory speed limit sign on a portable sign support.

Post temporary regulatory speed limit signs in work zone only during continuous worker activity. During periods of no work activity or when the traffic controls are removed from the roadway, cover or remove the temporary speed limit signs.

Coordinate with Regional Traffic Section to identify the construction stages that have approved temporary regulatory speed zones documented in a Temporary Speed Zone Declaration. Primary contact phone number: (715) 836-2823, secondary contact number: (715) 579-2851.

Contact the Region Traffic Section at least 14-calendar days before installing the temporary speed zone. After installation of the temporary speed zone is complete, notify the Regional Traffic Section with field locations of temporary speed zones.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

5. Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 35 traffic between Front Street and Vine Street, 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, May 28, 2021 to 6:00 AM Tuesday, June 1, 2021 for Memorial Day;
- From noon Friday, July 2, 2021 to 6:00 AM Tuesday, July 6, 2021 for Independence Day;
- From noon Friday, August 20, 2021 to 6:00 AM Monday, August 23, 2001 for North Hudson Pepper Festival
- From noon Friday, September 3, 2021 to 6:00 AM Tuesday, September 7, 2021 for Labor Day;
- From noon Friday, September 24, 2001 to 6:00 AM Monday, September 27 for Spirit of the St. Croix Art Festival.

stp-107-005 (20181119)

6. Utilities.

Projects 8080-07-70, 8080-07-72

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

Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities for the underground facilities in the area, as required per state statues. Use caution to maintain the integrity of utilities.

Additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

AT&T – Wisconsin (AT&T) (Communication)

AT&T has underground communication facilities throughout the project corridor consisting of manholes, conduits, and cables.

AT&T has underground communication facilities along the east side of Second Street as follows (stationing is approximate):

Station 22+11 RT to Station 26+25 RT. There are two separate conduit packages with manholes. One package consists of multi-tile ducts of 2x 4 configuration located under or near the curb. The ducts are manufactured in 4-6 ft sections and constructed with “bell housing” ends. Each section is placed end to end and coupled together with a gasket. The second package consists of 8x 4-inch PVC pipe located under the sidewalk. Copper and fiber optic cables are contained within the ducts and conduits.

- Perpendicular crossing of the PVC pipe conduits is allowable with concurrent excavation monitoring by AT&T.

Station 26+50 RT to Station 41+75 RT. The facilities consist of manholes and a conduit package of 9x 4” PVC pipe. Copper and fiber optic cables are contained within the conduits.

- Depths of the conduit package will vary depending on location. Any excavation activity that takes place along the sidewalk areas will cross over or under the conduit package.
- Perpendicular crossing of the conduits is allowable with concurrent excavation monitoring by AT&T.

Station 41+75 RT to Station 64+29 RT. The facilities consist of manholes and a conduit package of 6x 4” PVC pipe. Copper and fiber optic cables are contained within the conduits.

- Depths of the conduit package will vary depending on location. Any excavation activity that takes place along the sidewalk areas will cross over or under the conduit package. Perpendicular crossing of the conduits is allowable if caution is exercised around exposed conduits.
- AT&T has conduit laterals crossing STH 35/2nd St at Station 224+40 (Coulee) & Station 239+00 (Walnut) and laterals heading east in Coulee and Walnut. AT&T does not anticipate any conflicts with the conduit package from Station 225+00 (Coulee) to Station 21+42 (Vine).

Underground AT&T communication facilities cross Second Street at multiple locations between Station 26+25 to Station 26+50.

AT&T has underground communication facilities in the project area that directly conflict with the project improvements.

The following work will be performed by AT&T forces during construction (stationing is approximate):

Second Street, Station 22+11 RT to Station 26+25 RT. AT&T will provide pole support for exposed multi-tile ducts for all sanitary sewer and water main construction. Cooperate and coordinate with AT&T to allow installation of the pole supports. Provide 8 working day notice to AT&T prior to the start of any sanitary sewer or water main excavation. As excavation proceeds, carefully expose the ducts and allow AT&T forces to install the pole supports. AT&T’s needed working days will depend on sanitary sewer and water main schedules. Each specific location requires the ducts to be exposed, the poles to be positioned, and support straps placed under the ducts and over the poles. Allow approximately ½-hour for AT&T to complete each pole support.

Second Street, Station 26+25 RT to Station 26+45 RT. New water main and sanitary sewer will cross 3 AT&T conduit packages which cross Second Street and run from AT&T manholes at Station 26+25 RT to the AT&T building. AT&T will provide pole support for the conduits to maintain their elevation. AT&T will likely have to break away the old tile ducts on 2 of the 3 conduit packages and support only the cables. After sanitary sewer and water main construction is complete, AT&T will reestablish the conduits that were removed. Provide 8 working day notice to AT&T prior to sewer and water excavation work at this location. Allow AT&T approximately 2 working days to remove the tile. Allow approximately 1 working day for each operation to support conduit when sanitary and water mains are constructed. Allow AT&T approximately 2 working days to replace conduit that was removed.

Existing AT&T manhole frames and covers will be in direct conflict with the pavement improvements along Second Street at approximately Station 21+92 RT (Vine Street), 26+25 RT (Elm Street), 33+60 RT (Myrtle Street), 41+75 RT (St Croix Street), 50+80 RT (Division Street) and 60+93 RT (Shop Road).

- Manhole frame and cover adjustments will be made by AT&T forces. Provide 8 working day notice at each location prior to setting final grade to allow AT&T to adjust the frames and covers to final elevations. Allow approximately 1 working day for AT&T to make adjustments at each location.

Existing AT&T underground conduits will be in direct conflict with proposed storm sewer facilities along Second Street at the following locations. Carefully expose the conduits as excavation proceeds. Provide AT&T with 8 working day notice of storm sewer excavation work at each location to allow AT&T to schedule conduit adjustments as follows:

- Station 61+73, RT (at Shop Road). Proposed storm sewer will cross Second Street and AT&T conduit. AT&T forces will raise the conduit. Allow approximately ½ hour for AT&T to complete the adjustment.
- Station 51+34, RT (at Division Street). Proposed storm sewer will cross Second Street and AT&T conduit. AT&T forces will lower the conduit. Allow approximately 1 working day for AT&T to complete the adjustment.
- Station 29+55, RT (at Orange Street). Proposed storm sewer will cross sidewalk and AT&T conduit. AT&T forces will lower the conduit. Allow approximately 1 working day for AT&T to complete the adjustment.
- Station 26+04 LT (at Elm Street west). Proposed new storm sewer pipe between structures A2 – A1 will cross under 2 AT&T conduits. AT&T forces will monitor and support the conduits to allow placement of the storm sewer pipe under the conduits.
- Station 26+10 (at Elm Street). Proposed storm sewer will cross Second Street and parallel 2 lateral AT&T conduits. AT&T forces will adjust and support the conduits during the storm sewer placement. Allow approximately 2 hours for AT&T to complete the adjustment.
- Station 25+78, 25’ RT (at Elm Street). Proposed water main will cross 2 AT&T conduit packages running south out of an AT&T manhole. AT&T forces will support and lower the conduit packages during the water main placement. Coordinate water main construction with the AT&T adjustment. Allow approximately 5 working days for AT&T to complete the adjustment.
- Station 25+87, 25’ RT (at Elm Street). Proposed sanitary sewer will cross 2 AT&T conduit packages running south out of an AT&T manhole. AT&T forces will support and lower the conduit packages during the sanitary sewer placement. Coordinate sanitary sewer construction and removals with the AT&T adjustment. Allow approximately 5 working days for AT&T to complete the adjustment.
- Station 26+10, 25’ RT (at Elm Street). Proposed storm sewer will cross 2 AT&T conduit packages running south out of an AT&T manhole. AT&T forces will support and lower the conduit packages during the storm sewer placement. Coordinate storm sewer construction with the AT&T adjustment. Allow approximately 5 working days for AT&T to complete the adjustment.

Excavation Monitoring. From approximately Station 22+11 RT to approximately Station 64+29 RT, allow AT&T access to monitor excavations and assess the need to strap or support exposed ducts and conduits.

- Communicate and cooperate with AT&T when ducts and conduits are exposed. Allow AT&T to examine the ducts and conduits and band them together when exposed and undermined by excavation. For exposed spans of conduit exceeding 12 ft. in length, allow AT&T to set a pole on the ground, running parallel with and above the conduit package for support assistance. Provide 8 working day notice to AT&T prior to commencing any excavations for water, sanitary sewer, or storm water facilities. Allow approximately 1 working day for AT&T to set and complete pole support.

City of Hudson (Water)

The City of Hudson has underground water facilities throughout the project limits that will be reconstructed or adjusted by the contractor according to the plans and additional articles in these special provisions under Project 8080-07-70 and Project 8080-07-72.

City of Hudson (Sanitary Sewer)

The City of Hudson has underground sanitary sewer facilities throughout the project limits that will be reconstructed or adjusted by the contractor according to the plans and additional articles in these special provisions under Project 8080-07-70 and Project 8080-07-72.

Comcast (Communications)

Comcast has existing aerial communication facilities crossing Second Street on Xcel Energy poles which will remain in service at the following approximate crossing locations, and no conflicts are anticipated:

Station 46+45 anticipated to be adjusted prior to construction at the same crossing location concurrently with Xcel pole relocation.

Work planned by Comcast prior to construction is scheduled to begin in January 2021 and is estimated to take approximately 30 working days to complete.

Lumen (F/K/A CenturyLink Communications) (Communication)

Lumen has underground fiber optic facilities that cross Second Street at approximately Station 56+42 at an approximate depth of 16.8 feet below the existing pavement surface, and no conflicts are anticipated.

Sprint (Communication)

Sprint has overhead fiber optic cable in conduit attached to the south side of the railroad bridge at approximately Station 56+65, and no conflicts are anticipated.

Verizon (Communication)

Verizon has overhead fiber optic cable in conduit that crosses Second Street at approximately Station 56+65. The conduit is attached to the south side of the railroad bridge. No conflicts are anticipated.

An existing highway sign which is attached to the conduit will be replaced under Project ID 8080-07-70. Reuse the existing mounting bracket to attach the new sign to the conduit.

Provide the WisDOT Utility Coordinator with clear, close-up digital photographs of the sign replacement. Provide a photograph of the existing sign and bracket before sign removal, a photograph of the bracket and conduit after the existing sign is removed, and a photograph of the new sign and bracket after reattachment to the conduit.

WisDOT Utility Coordinator: Mike Piller
(715) 395-3021
Michael.Piller@dot.wi.gov

Village of North Hudson (Water)

Existing watermain running northeast underneath Lake Mallalieu from Shop Road to 7TH Street North is scheduled to remain in place and in service during the course of this project and no conflicts are anticipated. The jurisdictional line between the City of Hudson and Village of North Hudson is at the corporate boundary line which is roughly in the middle of the lake.

Windstream NTI, LLC (Windstream) (Communication)

Windstream has existing underground fiber optic cable located inside of AT&T conduit that crosses Second Street at approximately Station 26+30 and continues north along the east side of Second Street to an existing AT&T manhole located at approximately Station 33+60 RT, and no conflicts are anticipated.

- Adjustments and support of the AT&T conduit package during construction will be performed by AT&T according to AT&T special provision under Projects 8080-07-70 and 8080-07-72.

Windstream has existing underground fiber optic cable in Windstream conduit along the south side of Myrtle Street that crosses Second Street at approximately Station 33+60 located as follows:

- The conduit passes through an existing Windstream handhole located on the south side of Myrtle Street at approximately Station 33+65, 46' RT. An underground Windstream fiber optic cable in conduit runs between the handhole to the existing AT&T manhole located at approximately Station 33+60, 18' RT.
- The conduit crosses under a proposed storm sewer pipe and is adjacent to a proposed storm sewer manhole along the south side of Myrtle Street west of Second Street from approximately Station 33+50, 19.5' LT to approximately Station 33+66, 47' LT.
- The conduit is adjacent to proposed storm sewer removals along Myrtle Street and across Second Street, and crosses proposed sanitary sewer and water excavation along Second Street.
- The depth of the conduit across Second Street is approximately 6 ft. below existing ground.
- Windstream will provide a watchdog to protect the facilities and provide concurrent minor adjustments to the conduit during the storm sewer work.
- Provide 48 hour notice to Windstream prior to commencing storm sewer work along Myrtle Street and across Second Street.
- Provide 48 hour notice to Windstream prior to commencing sanitary sewer and water main excavation work along Second Street at Myrtle Street.

Windstream has existing aerial fiber optic cable along the south side of Myrtle Street on Xcel Energy poles that crosses Second Street at approximately Station 33+60. The aerial cable is anticipated to be relocated prior to construction as follows:

- The aerial cable will be removed from the poles and relocated into the existing underground Windstream conduit that crosses Second Street at approximately Station 33+60. Once the new fiber optic cable is installed in the conduit, the existing aerial cable will be removed from the poles.

Work planned prior to construction is scheduled to begin in March 2021 and is estimated to take approximately 5 working days to complete.

Xcel Energy (Electricity)

Xcel Energy has existing aerial electric facilities and poles along the west side of Second Street throughout the project limits that will remain in service.

No conflicts are anticipated at the following facility locations (stationing is approximate):

Pole at Station 37+25 LT, midblock between Myrtle Street and St. Croix Street.

Pole at Station 50+93 LT, southwest corner of Division Street and Second Street.

Pole at Station 54+80 LT, above the retaining wall.

The following pole adjustments are anticipated to be completed prior to construction: (stationing is approximate):

Pole at Station 25+70 LT will be moved out of conflict with the proposed sidewalk ramp. This adjustment is scheduled to be completed in March 2021.

Pole at Station 46+42 LT will be moved approximately 7' west. This adjustment was completed in the Fall 2020.

The following pole adjustments are anticipated to be completed during construction: (stationing is approximate):

Pole at Station 29+62 LT will be removed prior to work commencing at this location and reinstalled after proposed curb & gutter is complete. Provide 5 working day notice when work will commence and when curb & gutter is complete. Allow approximately 1 hour to remove the pole and approximately 1 hour to reinstall.

Pole at Station 33+62 LT will be removed prior to work commencing at this location and reinstalled after proposed curb & gutter is complete. Provide 5 working day notice when work will commence and when curb & gutter is complete. Allow approximately 1 hour to remove the pole and approximately 1 hour to reinstall.

Pole at Station 41+85 LT will be removed prior to work commencing at this location and reinstalled after proposed sidewalk is complete. Provide 5 working day notice when work will commence and when sidewalk is complete. Allow approximately 1 hour to remove the pole and approximately 1 hour to reinstall.

Pole at Station 62+48 LT will be removed prior to work commencing at this location and reinstalled after curb & gutter is complete. Provide 5 working day notice when work will commence and when curb & gutter is complete. Allow approximately 1 hour to remove the pole, and approximately 1 hour to reinstall.

Pole at Station 62+48 RT will be removed prior to excavation work commencing at this location and reinstalled after curb & gutter is complete. Provide 5 working day notice when work will commence and when curb & gutter is complete. Allow approximately 1 hour to remove the pole and approximately 1 hour to reinstall.

Xcel Energy (Gas/Petroleum)

Xcel Energy has underground gas facilities along Second Street throughout the project limits.

Xcel Energy has underground gas facilities within the project limits that conflict with the project improvements. The following work is anticipated to be performed by Xcel Energy prior to construction:

Beginning with a tie-in with existing gas main at Station 23+05 LT, install new underground 2” PE gas main along the west sidewalk of Second Street as follows (stationing is approximate):

- Continue north under the west sidewalk to Station 25+35 LT, where the gas main will turn northwest and cross Elm Street diagonally to Station 26+08, 48’ LT of Second Street.
- From Station 26+08, 48’ LT on the north side of Elm Street, the 2” PE gas main will cross the sidewalk then turn 90 degrees east and continue to the west sidewalk of Second Street at Station 26+18 LT then turn 90 degrees north and continue under the sidewalk to Station 28+50 LT.
- At Station 28+50 LT, the 2” gas main will turn 90 degrees east and cross Second Street to the back of the east sidewalk.
- From Station 28+50 RT, the 2” gas main will continue north along the back of the sidewalk to Station 29+55 RT, where the gas main will turn 90 degrees east then 90 degrees north and cross Orange Street east of the new storm sewer.
- From the north side of Orange Street, the gas main will turn 90 degrees west and cross Second Street at Station 30+15, continuing west along the north sidewalk of Orange Street.

From a Tee connection at Station 26+08, 48’ LT new 4” PE gas main will run west along the north side of Elm Street and beyond the west project limits.

From a Tee connection at Station 26+18 LT, new 4” PE gas main will run east across Second Street and continue east along the north side of Elm Street near the north right-of-way.

From a Tee connection under the sidewalk at Station 30+15 LT, new 2” PE gas main will continue north under the sidewalk along the west side of Second Street to Station 33+55 LT, then turn 90 degrees west then 90 degrees north to cross Myrtle Street near the west project limit.

- From the north side of Myrtle Street near the west project limit, the gas main will run east under the sidewalk to Second Street Station 34+15 LT then turn 90 degrees north and continue under the west sidewalk of Second Street. At Station 39+50 LT the gas main will terminate with an end cap.

- From a Tee connection on Second Street at Station 33+35 LT, new 2” PE gas main will run east across Second Street then turn 90 degrees north at the back of the east sidewalk, then continue north to the south right-of-way line of Myrtle Street, the turn 90 degrees and continue east along the south right-of-way line of Myrtle Street.

New 2” PE gas main will connect with existing gas main on the south side of River Street at the west project limit. The new gas main will run south from the connection then turn 90 degrees east and continue along the south side of River Street to Second Street Station 46+45 LT, where the gas main will turn 90 degrees south along the sidewalk then 90 degrees east to cross Second Street at Station 46+25.

At the curb line of Second Street at Station 46+25 RT the gas main will run diagonally northeast to the east project limit on the south side of River Street, and tie back into existing gas main.

- From a Tee connection on the south side of River Street at Station 46+45 LT, new 2” PE gas main will run north across River Street on the west side of the new catch basin E1, then turn 90 degrees east and continue along the back of sidewalk to Station 46+95 LT.

At Second Street Station 46+95 LT, the gas main will turn north and continue along the west edge of sidewalk to Station 51+00 LT, where the gas main will turn 90 degrees west then 90 degrees north and cross Division Street near the west project limit. From the north side of Division Street, the gas main will turn 90 degrees east then 90 degree north to continue along the west sidewalk of Second Street and tie back into existing gas main at Station 53+35 LT.

Upon completion of the new gas main installations, service laterals will be restored along Second Street and existing gas main within the project limits will be discontinued in place.

Underground gas facilities may become temporarily exposed during excavation and installation of storm sewer or water and sewer service laterals. Carefully hand dig and backfill around underground gas facilities to preserve and protect the facilities.

Prior to digging, contact Xcel Energy for assistance with identifying crossings of active natural gas lines.

Contact Xcel Energy before removing any gas facilities, to verify that they have been discontinued and carry no natural gas. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without explicit consent from Xcel Energy.

Work planned prior to construction was completed in the Fall 2020.

Projects 8080-02-60, 8080-02-61, 8080-02-72

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

Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities for the underground facilities in the area, as required per state statues. Use caution to maintain the integrity of utilities.

Additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed, and the site will be available to the utility owner. Follow-up with a confirmation notice to the engineer and the utility owner not less than three working days before the site will be ready for the utility owner to begin its work.

AT&T - Wisconsin (AT&T) (Communications)

AT&T has underground communication facilities throughout the project corridor consisting of manholes, pedestals, conduit, and cables including the following locations (stationing is approximate):

AT&T has underground communication facilities along the east sidewalk of Second Street throughout the project. The facilities consist of manholes and a conduit package of 6x 4” PVC pipe. Copper and fiber optic cables are contained within the conduits.

- Depths of the conduit package will vary depending on location. Any excavation activity that takes place along the sidewalk areas will cross over or under the conduit package. Perpendicular crossing of the conduits is allowable with concurrent excavation monitoring by AT&T.
- AT&T has conduit laterals crossing Second Street at Station 224+40 (Coulee) & Station 239+00 (Walnut) and laterals heading east in Coulee and Walnut. AT&T does not anticipate any conflicts with the conduit package from Station 225+00 (Coulee) to Station 21+42 (Vine).

AT&T has underground communication facilities along the west side of Second Street from approximately Station 221+30 LT to Station 224+60 LT.

AT&T has underground communication facilities that cross Second Street at approximately Station 214+10 and at approximately Station 224+45.

- An existing AT&T manhole and a handhole at approximately Station 214+05 RT will remain in service during nearby sanitary sewer excavation and construction. The bottom of the manhole is at approximate elevation 685.75. Exercise caution and take precautions during sanitary sewer excavation to not undermine the manhole and handhole. Communicate and coordinate with AT&T to allow AT&T to monitor excavation near the manhole.

AT&T has underground communication facilities in the project area that directly conflict with the project improvements.

The following work will be performed by AT&T forces prior to construction (stationing is approximate):

AT&T has an existing conduit package running along the back of curb along the east side of Second Street from Station 208+00 RT to Station 218+00 RT. The conduits will be in conflict between Station 208+00 RT to Station 213+50 RT due to the proximity of the new sanitary sewer facility, and adjustments will be made by AT&T as follows (stationing is approximate):

- AT&T will discontinue in place all conduits and facilities located along the east side of Second Street between Station 205+50 RT and Station 213+90 RT to accommodate sanitary sewer construction.
- AT&T will discontinue in place a deep underground cable that crosses Second Street at approximately Station 208+10.
- AT&T will relocate by directional bore both fiber optic and copper facilities to the west side of Second Street. AT&T facilities will run west across Second Street between Station 213+75 and Station 214+00.
- Once on the west side, AT&T will install new underground facilities along the back of curb and under the sidewalk of Second Street. The lines will run south to approximately Station 204+65 LT where the lines will turn east across Second Street and tie into existing facilities along Front Street.
- The new telephone lines will also tie into existing facilities at Station 210+75 LT which serve the property at 400 2nd St.

Relocation work planned prior to construction was completed in the Fall of 2020. Existing facilities to be discontinued in place are anticipated to be removed from service by March 31, 2021.

AT&T has an existing manhole located near Second Street Station 208+00, 50’ RT that will be discontinued in place and filled with slurry sand. The work is scheduled to be completed in March 2021 and will take approximately 2 days to complete.

The following work will be performed by AT&T forces during construction (stationing is approximate):

On Second Street at approximately Station 218+21 RT, the AT&T conduit package will be exposed and in direct conflict with the excavation for proposed Inlet# 4. Adjustments will be made by AT&T as follows:

- Communicate and coordinate with AT&T to allow AT&T forces to install pole support of the conduit package during the inlet removal and inlet placement due to the depth of the new inlet.

- AT&T will set a pole on the ground parallel to the conduit to traverse the excavation. Once the pole is placed and PVC conduit is exposed, straps will be placed by AT&T under the conduit and over the pole.
- Provide notice to AT&T of the inlet excavation. Assist AT&T with excavation to help expose the conduit package. Allow approximately 1 hour for AT&T forces to install the pole support.

On Second Street at approximately Station 220+80 RT, the AT&T conduit package will be exposed and in direct conflict with a proposed pipe extension for Inlet# 1. The proposed pipe extension will cross AT&T's conduit package. Adjustments will be made by AT&T as follows:

- Communicate and coordinate with AT&T to allow AT&T forces to adjust the conduit elevation. Carefully expose the conduit package and allow AT&T forces to lower the conduits to avoid the new storm sewer pipe. Allow AT&T to perform the work after pavement and curb is removed, but prior to placement of storm sewer pipe. Allow approximately 1 working day for AT&T forces to perform the work.
- Provide notice to AT&T of the pipe excavation. Assist AT&T with excavation to help expose the conduit package.

Existing AT&T manhole frames and covers will be in direct conflict with the pavement improvements along Second Street at approximately Station 214+05 and Station 224+38. Adjustments will be made by AT&T as follows:

Manhole frame and cover adjustments will be made by AT&T forces. Provide notice at each location prior to setting final grade to allow AT&T to adjust the frames and covers to final elevations. Allow approximately 1 working day for AT&T to make the adjustments at each location.

AT&T has existing buried cables from approximately Station 224+40, 40' LT to approximately Station 224+60, 55' LT running to a pedestal located at approximately Station 224+60 LT. These cables may need to be exposed and adjusted in order to accommodate the proposed SB10 traffic signal base. AT&T will perform this work during construction after pavement and curb is removed, but prior SB10 being placed and prior to new curb being placed.

- Provide AT&T with advance notice of signal base SB-10 installation and allow 2 working days to complete adjustments.

Excavation Monitoring. Allow AT&T access to monitor excavations and assess the need to strap or support exposed ducts and conduits.

- Communicate and cooperate with AT&T when ducts and conduits are exposed. Allow AT&T to examine the ducts and conduits and band them together when exposed and undermined by excavation. For exposed spans of conduit exceeding 12 ft. in length, allow AT&T to set a pole on the ground, running parallel with and above the conduit package for support assistance. Provide notice to AT&T prior to commencing any excavations for water, sanitary sewer, or storm water facilities. Allow approximately 1 working day for AT&T to set and complete pole support.

City of Hudson (Water)

The City of Hudson has underground water facilities throughout the project limits that will be reconstructed or adjusted by the contractor according to the plans and additional articles in these special provisions under Project 8080-02-60 and Project 8080-02-61.

City of Hudson (Sanitary Sewer)

The City of Hudson has underground sanitary sewer facilities throughout the project limits that will be reconstructed or adjusted by the contractor according to the plans and additional articles in these special provisions under Project 8080-02-60 and Project 8080-02-61.

Comcast (Communications)

Comcast has existing aerial communication facilities sharing Xcel Energy poles along the east side of Second Street from approximately Station 204+00 RT to approximately Station 220+15 RT which are anticipated to be relocated to new Xcel Energy poles on the west side of Second Street concurrently with Xcel Energy aerial relocation prior to construction, and no conflicts are anticipated.

Comcast has aerial communication facilities crossing Second Street between Xcel Energy poles which will remain in service at the following approximate crossing locations, and no conflicts are anticipated (stationing is approximate):

- Station 220+75 anticipated to move south to follow a relocated Xcel pole at Station 219+00 RT.
- Station 224+60 anticipated to be adjusted in place at the same crossing location concurrently with Xcel pole adjustments.
- Station 234+73 anticipated to be adjusted in place at the same crossing location concurrently with Xcel pole relocation.
- Station 21+65

Comcast has aerial communication facilities on the east side of Second Street serving the Hudson Water Treatment Plant from an existing pole located at approximately Station 210+50 RT that are anticipated to be replaced by a new underground crossing of Second Street at approximately Station 210+20 prior to construction, and no conflicts are anticipated.

Comcast has existing underground communication facilities within the project limits at the following locations which are anticipated to be relocated prior to construction, and no conflicts are anticipated:

- An existing underground fiber optic cable crossing Second Street at approximately Station 210+70 will be discontinued in place. A replacement cable will be installed from a new Xcel Energy pole located at approximately Station 210+20 LT.

Existing aerial communication lines on Xcel poles along Coulee Road and Buckeye Road that cross Second Street at Station 224+75 are anticipated to be raised prior to construction to clear the temporary traffic signal and no conflicts are anticipated.

Work planned by Comcast prior to construction is scheduled to begin in February 2021 and is estimated to take approximately 90 working days to complete.

Xcel Energy (Electricity)

Xcel Energy has existing aerial electric facilities within the project limits at the following approximate locations:

- Aerial electric lines and poles along the east side of Second Street from approximately Station 205+50 RT to Station 220+15 RT.

Xcel Energy has existing aerial electric facilities crossing Second Street at the following approximate locations that are anticipated to be removed prior to construction:

- Station 211+65
- Station 220+75

Xcel Energy has existing aerial electric lines along the east side of Second Street that are anticipated to be relocated to the west side of Second Street prior to construction. New poles and aerial conductors will be placed along Second Street at the following locations (stationing is approximate):

- Station 205+80 RT begin relocation, existing conductors transferred from existing adjacent pole.
- Station 207+00 RT inside city easement & fence.
- New aerial crossing of Second Street near Station 207+05, 18’ design clearance minimum.
- Station 207+10 LT west of sidewalk, with guy wire and anchor set to avoid conflicts.

- Station 207+80 LT west of sidewalk.
- Station 210+20 LT west of sidewalk.
- Station 213+20 LT behind the guard rail.
- Station 214+20 LT behind the guard rail.
- Station 215+80 LT behind the guard rail, with guy wire and anchor.
- Station 217+10 LT behind the guard rail.
- Station 217+60 LT behind the guard rail, with guy wire and anchor.
- New aerial crossing of Second Street near Station 217+70, 18’ design clearance minimum.
- Station 217+80 RT west of path, with guy wire and anchor set to avoid conflict.
- Station 218+90 RT east of path.
- Station 219+00 RT east of path, relocated pole from Station 220+15 RT, with guy wire and anchor.
- New aerial crossing of Second Street near Station 220+50.
- Station 222+15 LT end relocation.

Existing electric lines across Second Street at Station 224+75 are anticipated to be raised prior to construction to clear the temporary traffic signal and no conflicts are anticipated. Existing poles located on Buckeye Road at Station 312+05 RT and on Coulee Road beyond the east project limit are anticipated to be replaced with taller poles. The replacement pole near Station 312+05 RT will be located 2 - 3 feet south of the proposed sidewalk.

A pole located at approximately Station 234+70 LT will be relocated approximately 3’ - 4’ west along the south side of Commercial Street and the aerial lines across Second Street will remain in place.

Work planned by Xcel Energy prior to construction is anticipated to be completed by March 31, 2021.

Xcel Energy (Gas/Petroleum)

Xcel Energy has existing underground gas facilities within the project limits along the east side of Second Street at the following approximate locations:

- Station 204+00 RT to Station 205+00 RT
- Station 215+75 RT to Station 224+75 RT
- Station 212+00 RT to Station 215+50 RT: 1-inch PE gas service is located along the east side of the wastewater treatment plant. The gas service line runs north past the treatment plant then turns west towards the east right-of-way line, returning northward from Station 213+30 RT to Station 215+50 RT, running east of and roughly parallel to the sanitary sewer reference line from Station 268+20 RT to Station 270+40 RT. The 1-inch gas service has a tee connection to the existing 2-inch PE gas main at sanitary sewer reference line Station 270+40 RT.
- Station 212+00 RT to Station 215+50 RT: 2-inch PE gas main is located east of the 1-inch PE gas service and east of the water treatment plant. The 2-inch gas main turns west and crosses the proposed sanitary sewer at approximate sanitary sewer refence line Station 270+40, then turns north and continues along the east side of Second Street from Station 215+75 RT.

Xcel Energy has underground gas facilities within the project limits along the west side of Second Street at the following approximate locations:

- Station 204+82 LT to Station 208+75 LT
- Station 224+75 LT to Station 238+80 LT
- Station 230+65 LT to Station 232+40 LT

Xcel Energy has underground gas facility services and crossings of Second Street throughout the project limits and at intersections.

Xcel Energy has existing underground gas facilities in the project limits that directly conflict with the project improvements. The following work is anticipated to be performed by Xcel Energy forces prior to construction (stationing is approximate):

Station 212+00 RT to Station 215+50 RT. Relocate the entire 1-inch PE gas service further east to the existing tree line. The existing 1-inch PE service will be discontinued in place, and its existing Tee connection with the 2-inch PE gas main will be cut and capped. The new 1-inch PE gas service will be connected to the existing 2-inch PE gas main farther east and out of conflict with the sanitary sewer excavation.

Discontinue the existing 2-inch PE gas main in place located east of the wastewater treatment plant, up to sanitary sewer reference line Station 270+40 RT at the new connection with the new 1-inch PE gas service.

- The existing 2-inch PE gas main crossing of the proposed sanitary sewer at sewer reference line Station 270+40 will remain in place and in service. Exercise caution excavating around the gas main. Coordinate with Xcel to arrange for Xcel forces to monitor the sewer excavation around the exposed gas main and to install support across the area of excavation if required.
- Xcel Energy can temporarily shut of gas in the line for 1 working day upon advance notice.

New 2” PE gas main will be installed along the west side of Second Street along the east edge of the existing sidewalk between Station 205+00 LT to Station 215+80 LT. At Station 215+80 LT the gas main will turn 90 degrees east and cross Second Street to tie into existing gas main on the east side of Second Street.

New 2” PE gas main will be installed along the east side of Second Street from 223+15 RT to Station 224+50 RT, where the gas main will turn and continue east along the south right-of-way of Coulee Road.

- Near the east project limit on Coulee Road, a new tee connection between the new 2-inch gas main and a new 4-inch gas main will be installed. From the Tee connection, new 4-inch gas main will run north across Coulee Road then turn 90 degrees west and run west along the north side of Coulee Road to Second Street, then curve north and run along the east sidewalk of Second Street.
- From a Tee connection with the 4” gas main at Station 225+25 RT, new 2” PE gas main will run west across Second Street and continue west along the north right-of-way line of Buckeye Street.
- At Station 231+50 RT the 4” gas main will turn 90 degrees west and cross Second Street.
- At Station 231+50 LT, the 4” gas main will turn 90 degrees north and run north along the west sidewalk to Station 234+75 LT.
- At Station 231+50 LT, new 2-inch gas main will run west along the south side of Wisconsin Street from a tee connection with the 4-inch gas main.
- At Station 234+75, the 4” PE gas main will turn 90 degrees west and run along the south right-of-way line of Commercial Street to the western project limit.

From a Tee connection with the 4” PE gas main at Station 234+75 LT, new 2” PE gas main will run east across Second Street and along the south right-of-way line of Commercial Street to the east project limit.

From a new connection to existing gas main on the south side of Walnut Street at the east project limit, new 2-inch PE gas main will run west and cross Second Street at Station 238+80, continuing west along the south side of Walnut Street.

Gas service laterals along Second Street between Coulee Road and Commercial Street will be connected to the new 4” gas main.

Gas services to properties along Second Street between Commercial Street and Walnut Street will be relocated to adjacent streets and the services along Second Street discontinued in place during the Winter of 2020/2021, and the existing gas facilities along Second Street between Coulee Road and Walnut Street discontinued in place in the Spring 2021.

Work planned by Xcel Energy prior to construction is anticipated to be completed by May 2021.

Underground gas facilities may become temporarily exposed during excavation and installation of storm sewer or water and sewer service laterals. Carefully hand dig and backfill around underground gas facilities to preserve and protect the facilities.

Prior to digging, contact Xcel Energy for assistance with identifying crossings of active natural gas lines.

Contact Xcel Energy before removing any gas facilities, to verify that they have been discontinued and carry no natural gas. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without explicit consent from Xcel Energy.

Projects 8080-05-70, 8080-05-72

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

Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities for the underground facilities in the area, as required per state statues. Use caution to maintain the integrity of utilities.

Additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed, and the site will be available to the utility owner. Follow-up with a confirmation notice to the engineer and the utility owner not less than three working days before the site will be ready for the utility owner to begin its work.

AT&T - Wisconsin (AT&T) (Communication)

AT&T has underground communication facilities throughout the project corridor consisting of manholes, pedestals, conduits, and cables.

AT&T has existing underground communication facilities along the east side of 6th Street at the following approximate locations:

- Station 68+05 RT to Station 69+40 RT. AT&T has an existing 6x 4” PVC conduit package that exits an AT&T manhole located at Station 69+40 RT and runs east along the south side of South Street. The conduit package runs near a proposed fire hydrant location on South Street at approximately Station 406+40 RT. The conduit package is not anticipated to conflict with the new fire hydrant but may become exposed during the water main excavation. Exercise caution when digging and backfilling around the conduit package. Coordinate with AT&T to allow AT&T to monitor the excavation and strap the exposed conduits together.
- Station 84+40 RT to Station 85+55 RT
- Station 107+00 RT to 110+85 RT
- Station 111+40 RT to Station 112+09 RT. AT&T has an existing 6x 4” PVC conduit package that exits an AT&T manhole located on Sommers Street near Station 427+60 LT and runs north along the east side of 6th Street into Project 8080-02-73. AT&T has an existing telephone cable that exits an AT&T pedestal located on Sommers Street at approximately Station 427+35 LT and runs north along the east side of 6th Street into Project 8080-02-73.

AT&T has existing underground communication facilities along the west side of 6th Street at the following approximate locations:

- Station 85+55 LT to Station 110+60 LT. Underground cables run between back of curb and front of sidewalk. The cables will be crossed by numerous new sanitary sewer and water service laterals. The cables are not anticipated to conflict with the water and sewer laterals but may become exposed during the temporary excavations. Exercise caution when digging and backfilling around the cables.
- Station 110+60 LT to Station 112+09 LT. Underground cables turn west along the south side of Sommers Street, crossing near Station 426+12 to a pedestal located near Station 426+12 LT and no conflicts are anticipated. The cables are not anticipated to conflict with water

laterals but may become exposed during the temporary excavations. Exercise caution when digging and backfilling around the cables.

- From the AT&T pedestal located on the north side of Sommers Street at approximately Station 426+12 LT, underground cables run west beyond the project limits, north along the west side of 6th Street and beyond the construction limits into Project 8080-02-73, and east across 6th Street to the AT&T pedestal located on the north side of Sommers Street near Station 427+60 LT. No conflicts are anticipated.

Existing underground AT&T communication facilities cross Sixth Street at the following approximate locations:

- Station 73+20. The underground cables will be crossed by water main and storm sewer. The cables are not anticipated to conflict with the water main and storm sewer pipe but may become exposed during the temporary excavations. Exercise caution when digging and backfilling around the cables.
- Station 85+55
- Station 111+37

Existing underground AT&T communication facilities cross Sommers Street near Station 426+12 and Station 427+33.

AT&T has underground communication facilities in the project area that directly conflict with the project improvements.

<u>The following work will be performed by AT&T forces during construction (stationing is approximate)</u>:

Existing underground cables along the east side of 6th Street from Station 84+45 RT to Station 85+55 RT will be in proximity with proposed storm sewer and new curb & gutter.

- Carefully excavate and expose the AT&T cable during storm sewer construction with AT&T forces present. Communicate and coordinate with AT&T to accommodate monitoring.

Existing AT&T manhole frames and covers will be in direct conflict with the pavement improvements along 6th Street at approximately Station 69+40 RT and Station 106+55 LT.

- Manhole frame and cover adjustments will be made by AT&T forces. Provide notice at each location prior to setting final grade to allow AT&T to adjust the frames and covers to final elevations. Allow approximately 1 working day for AT&T to make adjustments at each location.

On 6th Street at approximately Station 97+85 LT, AT&T has an existing pedestal that will remain in service near sanitary sewer excavation. Coordinate with AT&T and allow AT&T access to monitor the sewer excavation and adjust the pedestal. Provide notice to AT&T prior to commencing sanitary sewer excavation work near the pedestal. Allow approximately 1 working day for AT&T to make the adjustment.

Existing AT&T manhole frames and covers will be in direct conflict with the pavement improvements along 6th Street at approximately Station 111+40 RT.

- Manhole frame and cover adjustments will be made by AT&T forces. Provide notice prior to setting final grade to allow AT&T to adjust the frame and cover to final elevations. Allow approximately 1 working day for AT&T to make the adjustments.

<u>The following work is anticipated to be performed by AT&T forces prior to construction (stationing is approximate)</u>

Along 6th Street from approximately Station 107+00 RT to Station 110+85 RT, the existing underground cable will conflict with the proposed right turn lane improvements at Sommers Street.

AT&T will discontinue in place the existing underground cables that run along the east side of 6th Street from an existing pedestal located near the east right-of-way line at Station 107+00 RT to an existing pedestal located on the north side of Sommers Street at Station 427+38, 25’ LT. The existing cables cross Sommers Street at Station 427+33.

Starting at Station 108+68 RT near the east right-of-way line of 6th Street, AT&T will install new underground copper cable northerly 1’ to 2’ inside the right-of-way line at a depth of approximately 3’. The cable will continue north along the east right-of-way line to Sommers Street Station 427+30 RT, at an

existing guy pole located near the right-of-way line. From that point, the copper cable will be bored north and across Sommers Street near Station 427+28 at a depth of approximately 3' then terminate on the north side of Sommers Street at Station 427+35, 35' LT. The new cable will connect with new pedestals as follows:

Install a new pedestal at Station 108+68 RT, near the east right-of-way line of 6th Street. Splice over the new copper cable into the pedestal.

Remove an existing pedestal located on Sommers Street at Station 427+25 RT and replace it with a new pedestal relocated approximately 5' southeast towards an existing guy pole at the right-of-way line. Splice over the new copper cable into the pedestal.

An existing AT&T pedestal located on the north side of Sommers Street at Station 427+38, 25' LT will be removed. Install a new pedestal on the north side of Sommers Street at Station 427+35, 35' LT behind proposed curb & gutter. Splice over the new copper cable into the pedestal.

The new cable is not anticipated to conflict with storm sewer but may become exposed during excavation and storm sewer construction. Exercise caution when digging and working around the cable.

Work planned prior to construction commenced in the Fall 2020. All new underground facilities and pedestals were installed and are anticipated to be placed into service and the existing cable discontinued in place by the end of April 2021.

Baldwin Telecom Inc (D/B/A Baldwin Lightstream) (Communications)

Baldwin Lightstream has existing underground fiber optic cable along the north side of Sommers Street which turns and continues north along the east side of 6TH Street from Station 111+35 RT to Station 112+09 RT which is in conflict with proposed storm sewer construction and grading in the northeast corner of the Sommers Street intersection. The fiber optic cable facilities will remain in service during construction.

- The facilities are at a depth of approximately 4 feet below existing ground.

Baldwin Lightstream will provide a fiber watch and will adjust the existing facilities in place during storm sewer construction concurrently with the excavation and grading work.

- Provide advance notice to Baldwin Lightstream to schedule the fiber watch and allow concurrent facility adjustments in place. Allow 1 working day for cable adjustments.

Comcast (Communications)

Comcast has existing aerial communication facilities on Xcel Energy poles along the west side of Sixth Street from approximately Station 73+70 LT to approximately Station 110+30 LT which are anticipated to be moved with Xcel Energy pole relocations prior to construction, and no conflicts are anticipated.

Comcast has existing aerial communication facilities on Xcel Energy poles along the east side of Sixth Street from approximately Station 110+40 RT to approximately Station 112+09 RT and no conflicts are anticipated.

Comcast has existing aerial communication facilities on Xcel Energy poles that cross 6TH Street at Station 73+70, Station 89+70, and Station 111+30 and no conflicts are anticipated (stationing is approximate).

Comcast has existing aerial communication facilities on Xcel Energy poles along the following side streets, and no conflicts are anticipated:

- The north side of Wisconsin Street N
- The north side of Sommers Street

Comcast has existing underground coax cable along the east side of 6TH Street from approximately Station 107+05 RT to approximately Station 110+40 RT where the cable turns east and continues along the south side of Sommers Street.

- An existing pedestal is located at approximately Station 108+63 RT.

The underground Comcast coax cable and pedestal are in conflict with the proposed right turn lane at Sommers Street and are anticipated to be relocated prior to construction. A new underground cable will be bored along the east side of the new turn lane, and the pedestal relocated east of the turn lane and out of conflict.

The following adjustments to overhead Comcast facilities along 6TH Street are anticipated prior to construction (stationing is approximate):

- Station 110+55 LT, existing guy wire anchor adjusted to avoid new sidewalk.

During construction, Comcast will provide a watchdog during storm sewer removals and construction near the new coax cable from Station 107+05 RT to Station 110+40 RT and along Sommers Street. Provide Comcast with advance notice of storm sewer work.

Existing guy anchors at Station 100+90 RT are within the grading limits back of curb but can remain in place. Exercise caution working around the anchors.

Aerial work planned by Comcast prior to construction is scheduled to be completed in March 2021.

Underground work planned by Comcast prior to construction is scheduled to begin in March 2021 and is estimated to take approximately 10 working days to complete.

Completion of all underground work including guy wire anchor adjustment is dependent on frozen soil conditions and the final completion date for all underground work is anticipated to be no later than the end of April 2021.

Midwest Natural Gas, Inc. (Gas / Petroleum)

Midwest Natural Gas has existing underground 6-inch steel high pressure gas main located within the project limits as follows, and no conflicts are anticipated (stationing and location is approximate):

The gas main enters the west project limit at Sommers Street at Station 426+20, 39’ LT and runs east along the north side of Sommers Street, turning northerly through the northwest quadrant of the 6TH Street / Sommers Street intersection to 6TH Street Station 111+85, 32’ LT where the gas main turns 90 degrees east and crosses 6TH Street.

At Station 111+85, 43’ RT the gas main turns 90 degrees north and runs along the east side of 6TH Street into Project 8080-02-73, within the grading limits of the new ditch.

The depth of the gas main varies from approximately 38 inches to 48 inches below existing ground.

Midwest Natural Gas will monitor all grading work near the gas main along the north side of Sommers Street and along the east side of 6TH Street north of Sommers Street. Provide Midwest Natural Gas with advance notice prior to commencing any grading in these areas.

Village of North Hudson (Water)

The Village of North Hudson has underground water facilities throughout the project limits that will be reconstructed or adjusted by the contractor according to the plans and additional articles in these special provisions under Project 8080-05-70 and Project 8080-05-72.

Village of North Hudson (Sanitary Sewer)

The Village of North Hudson has underground sanitary sewer facilities throughout the project limits that will be reconstructed or adjusted by the contractor according to the plans and additional articles in these special provisions under Project 8080-05-70 and Project 8080-05-72.

Xcel Energy (Electricity)

Xcel Energy has existing overhead electric facilities and poles along 6TH Street throughout the project limits that will remain in service. Existing overhead electric lines cross Sixth Street at multiple locations from approximately Station 72+95 to approximately Station 111+30.

Existing poles along the west side of 6TH Street at the following locations are adjacent to existing curb & gutter and are anticipated to be relocated to within 1' of the sidewalk prior to construction, and no conflicts are anticipated (stationing is approximate):

- Station 74+40 LT
- Station 75+70 LT
- Station 77+20LT
- Station 79+30 LT
- Station 81+35 LT

The following additional adjustments to overhead electric facilities along 6TH Street are also anticipated prior to construction (stationing is approximate):

- Station 80+25 LT move pole out of conflict with the pedestrian ramp and curb.
- Station 96+35 LT move pole to approximately Station 96+60 LT.
- Station 110+55 LT, existing guy wire anchor adjusted to avoid new sidewalk.

The following work will be performed by Xcel Energy during construction:

At approximately Station 111+35 RT, an existing pole adjacent to proposed storm sewer excavation will be held by Xcel Energy during the storm sewer work.

- Various other poles along the project will need pole holds during sanitary sewer, water, and storm sewer work. Xcel Energy will provide pole holds for poles in conflict with sanitary sewer, water, and storm sewer excavations. Request pole holds for excavation limits within approximately 5 ft. of a pole. Provide advance notice to Xcel Energy to arrange for each pole hold.

Existing guy anchors at Station 100+90 RT are within the grading limits back of curb. Exercise caution working around the anchors.

Work planned prior to construction is scheduled to begin in March 2021 and is estimated to take approximately 10 working days to complete.

Xcel Energy (Gas/Petroleum)

Xcel Energy has underground gas facilities along the east and west sides of 6TH Street and at crossings throughout the project limits and no conflicts are anticipated.

Xcel Energy has existing underground gas facilities that cross 6TH Street at the following locations that are anticipated to be relocated prior to construction as follows (stationing is approximate):

- An existing 2-inch PE gas main crossing at Station 74+22 will be relocated to Station 74+15.
- An existing 2-inch PE gas main crossing at Station 96+30 will be relocated to Station 96+05.
- An existing 2-inch PE gas main from Station 107+85 RT to Station 110+85 RT will be relocated behind the proposed curb & gutter.

Underground gas facilities may become temporarily exposed during excavation and installation of storm sewer or water and sewer service laterals. Carefully hand dig and backfill around underground gas facilities to preserve and protect the facilities.

Prior to digging, contact Xcel Energy for assistance with identifying crossings of active natural gas lines.

Contact Xcel Energy before removing any gas facilities, to verify that they have been discontinued and carry no natural gas. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without explicit consent from Xcel Energy.

Work planned prior to construction is scheduled to begin in the Spring of 2021 and is estimated to take approximately 4 working days to complete.

Project 8080-02-73

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

Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities for the underground facilities in the area, as required per state statues. Use caution to maintain the integrity of utilities.

Additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed, and the site will be available to the utility owner. Follow-up with a confirmation notice to the engineer and the utility owner not less than three working days before the site will be ready for the utility owner to begin its work.

AT&T - Wisconsin (AT&T) (Communication)

AT&T has underground communication facilities along the east side of 6th Street throughout the project consisting of pedestals, conduits, and cables.

AT&T has underground communication facilities along the west side of 6th Street throughout the project consisting of pedestals and cables, and no conflicts are anticipated.

AT&T has underground communication facilities in the project area that directly conflict with the project improvements.

<u>The following work will be performed by AT&T forces during construction (stationing is approximate)</u>:

An existing AT&T conduit package consisting of 6x 4” PVC pipe is located along the east side of 6TH Street north of Sommers Street and will conflict with ditch grading from approximately Station 115+75 RT to approximately Station 117+00 RT.

- Provide advance notice to AT&T prior to ditch grading and driveway removals to allow for depth adjustments of the conduit package before driveway paving. Allow approximately 3 working days for AT&T to make the adjustments.

An existing AT&T underground telephone cable runs along the east side of 6th Street from a pedestal located on Sommers Street at approximately Station 427+38 LT to approximately Station 116+10 RT. The cable crosses proposed ditch grading along 6th Street between approximately Station 112+25 RT to approximately Station 113+25 RT. AT&T will expose and lower the cable during construction to accommodate the proposed ditching.

- Provide advance notice to AT&T prior to ditch grading to allow for depth adjustment of the cable. Allow approximately 3 working days for AT&T to make the adjustments.

Baldwin Telecom Inc (D/B/A Baldwin Lightstream) (Communication)

Baldwin Lightstream has existing underground fiber optic cable communication facilities within grading limits along the east side of 6TH Street from approximately Station 112+09 RT to approximately Station 118+38 RT which will remain in service during construction.

The facilities are in conflict with proposed grading between approximately Station 116+00 RT to approximately Station 118+38 RT.

- The facilities are at a depth of approximately 4 ft. below existing ground.

Baldwin Lightstream will provide a fiber watch and will lower and adjust the existing facilities in place during ditch excavation concurrently with the grading work.

- Provide advance notice to Baldwin Lightstream to schedule the fiber watch and allow concurrent facility adjustments in place. Allow 3 working days for cable adjustments.

Comcast (Communications)

Comcast has existing overhead communication lines on Xcel Energy poles along the east side of 6TH Street from approximately Station 112+09 RT to approximately Station 118+38 RT.

- Existing overhead communication lines cross 6TH Street at approximately Station 117+80 and no conflicts are anticipated.
- Existing guy wire anchors located at approximately Station 116+75 RT will be adjusted during construction to accommodate ditch backslope grading. Provide advance notice for Comcast forces to remove and reset the guy wire anchors.

Midwest Natural Gas, Inc. (Gas / Petroleum)

Midwest Natural Gas has existing underground 6-inch steel high pressure gas main located within the project limits as follows, and no conflicts are anticipated (stationing and location is approximate):

The gas main enters the project at approximately Station 112+00, 43’ RT and runs north along the east side of 6TH Street to the north project limit, within the grading limits of the new ditch.

The depth of the gas main varies from approximately 38 inches to 48 inches below existing ground.

Midwest Natural Gas will monitor all grading work near the gas main along the east side of 6TH Street north of Sommers Street. Provide Midwest Natural Gas with advance notice prior to commencing any grading in this area.

Village of North Hudson (Water)

The Village of North Hudson has underground water facilities along the east side of 6TH Street North that will be insulated according to the plans and additional articles in these special provisions under Project 8080-02-73.

Village of North Hudson (Sanitary Sewer)

The Village of North Hudson has underground sanitary sewer facilities along the west side of 6th Street North throughout the project limits and no conflicts are anticipated.

Xcel Energy (Electricity)

Xcel Energy has existing overhead electric facilities along the east side of 6TH Street throughout the project limits and no conflicts are anticipated.

- Existing overhead electric lines cross 6TH Street at approximately Station 117+80 and no conflicts are anticipated.
- Existing poles located at approximately Station 113+40 RT and approximately Station 116+80 RT are within the grading limits of the proposed ditch backslope and will remain in service. It is acceptable to cut and grade the backslope as shown on the plans around the poles. Exercise caution working around the poles.

Xcel Energy (Gas/Petroleum)

Xcel Energy has underground gas facilities north of Sommers Street along the west side of 6TH Street beyond the construction limits and no conflicts are anticipated.

Xcel Energy has existing underground gas facilities that cross 6TH Street at approximately Station 117+65 that are anticipated to be relocated prior to construction as follows:

- A new 2-inch PE gas main will be directional bored across 6TH Street beyond the project limits at approximately Station 118+70. At Station 118+70 RT the gas main will turn south and continue along and within 1' of the east right-of-way line of 6TH Street to approximately Station 116+00 RT where it will terminate. The depth of bore will be approximately 48-inches below existing ground. The new gas main will be installed within the grading limits, but no conflicts are anticipated.
- The existing gas main that crosses 6TH Street at Station 117+65 will be discontinued in place.

Work planned prior to construction is scheduled to begin in the Spring 2021 and is estimated to take approximately 4 working days to complete.

7. Railroad Insurance and Coordination - Union Pacific Railroad Company

A Description

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

A.1 Railroad Insurance Requirements

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

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

Also send a copy to the following: Anna Davey, NW and NC Region Railroad Coordinator; 1701 N 4th Street, Superior, WI 54880; Telephone (715) 392-7960; E-mail: anna.davey@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 8080-07-70 and 8080-07-72
- Project Location: Hudson, WI
- Route Name: STH 35, St Croix County
- Crossing ID: 183828G
- Railroad Subdivision: Altoona Sub
- Railroad Milepost: 19.45
- Work Performed: Install low clearance sign on UP structure and road reconstruction

A.2 Train Operation

Approximately four through freight trains operate daily at up to 30 mph. There are no switching movements at this location.

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

Construction Contact

Chris T. Keckeisen, Manager Special Projects - Industry & Public Projects Engineering Department; 1400 Douglas, MS 0910, Omaha, NE, 68179; Telephone (402) 5445131; E-mail ctkeckei@up.com or Richard Ellison, Project coordinator, 207 Powell Avenue, Labadie, MO, 63055; Telephone (847) 323-7197; E-mail richardellison@up.com for consultation on railroad requirements during construction.

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

Flagging Contact

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

Cable Locate Contact

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

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

A.4 Work by Railroad

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

A.5 Temporary Grade Crossing

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

stp-107-026 (20200629)

8. Work by Others.

Projects 8080-07-70, 8080-07-72

Hudson School District (Communication)

The Hudson School District has existing underground communication facilities within the project limits at the following locations (stationing is approximate):

- Existing fiber optic cable is located along the east side of Second Street from Station 61+25, 35’ RT to the Lake Mallalieu Bridge. The cable crosses Shop Road at Station 402+37 and turns east to continue along the south side of Shop Road.

The fiber optic cable is in conflict with proposed storm sewer and water main work. The following work is anticipated to be performed by Hudson School District forces prior to construction (stationing is approximate):

- Place a new handhole along Second Street at Station 61+05, 50’ RT.
- From the new handhole, install new underground fiber optic cable north across Shop Road and east of the proposed storm sewer work along Second Street at Station 61+74 RT. The cable will continue along the east side of Second Street behind the guard rail to the Lake Mallalieu bridge at a depth of 36” to 48” below existing ground.
- Upon placing the new cable in service, the existing cable will be discontinued in place.

The following work will be performed by Hudson School District forces during construction:

- Provide Hudson School District with 10 working day notice of storm sewer and water main work along the east side of Second Street between Shop Road and Station 62+75 RT to allow monitoring of work near the cable and for adjustment of its depth if required. Allow one working day for adjustments.

Exercise caution and preserve the new cable while removing existing storm sewer and installing new storm sewer and water main pipes across the cable.

Work planned prior to construction is scheduled to begin in April 2021 and is estimated to take approximately 5 working days to complete.

Projects 8080-05-70, 8080-05-72

Hudson School District (Communication)

The Hudson School District has existing underground communication facilities within the project limits along the east side of 6TH Street from the Lake Mallalieu Bridge to approximately Station 69+90 RT, there turning east to continue east along the north side of South Street.

The communication facilities are in conflict with the work and will be relocated during construction as follows (stationing is approximate):

- Existing fiber optic cable in innerduct that runs north along the east side of 6TH Street from the Lake Mallalieu bridge and across South Street will be pulled back across South Street from an existing handhole located on South Street at Station 406+45 LT.
- The existing cable innerduct across South Street will be salvaged and replaced by the Hudson School District concurrently with sanitary sewer and water utility work. The approximate depth of the innerduct is 48-inches. Carefully expose the innerduct during sewer and water excavation and allow one working day for the school district contractor to remove the innerduct across South Street. Allow one working day to reinstall the innerduct once the roadway subgrade is restored and before placement of pavement base.

Provide Hudson School District with 10 working day notice of sanitary sewer and water excavation. Allow one working day to pull the fiber optic cable back.

- The existing handhole at South Street Station 406+45 LT will be moved and reset by the school district contractor concurrently with storm sewer work.

Provide Hudson School District with 10 working day notice of the storm sewer excavation work.

9. 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 Mohamad Hayek, PE at (715) 577-5420. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

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

Hudson Public Utilities personnel will provide construction staking and inspect construction of sanitary sewer and water main south of Lake Mallalieu under this contract.

Village of North Hudson personnel will provide construction staking and inspect construction of sanitary sewer and water main north of Lake Mallalieu under this contract. All references herein to “Hudson Public Utilities” shall be replaced with “Village of North Hudson” when north of Lake Mallalieu.

11. Erosion Control.

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

Re-topsoil of graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 calendar days after placement of topsoil. If graded areas are left exposed for more than 14 calendar days, seed those areas with temporary seed.

The contractor should restrict the removal of vegetative cover and exposure of bare ground to the minimum amounts necessary to complete construction. Restoration of disturbed soils should take place as soon as conditions permit.

If dewatering is required for any reason, the water must be pumped into a properly selected and sized dewatering basing before the clean/filtered water is allowed to enter any waterway or storm sewer. The basin must remove suspended solids and contaminants to the maximum extent practical.

12. Maintenance of Access

Maintain uninterrupted passenger vehicle access to the City of Hudson Wastewater Treatment Plant parking lot (329 Front Street, Station 208+00 Right) and to the Northwestern Mutual south parking lot (201 Second Street, Station 216+00, Right).

Access may require the construction and maintenance of temporary driveways until such time as the normal access is restored.

The maintenance of access including constructing, maintaining, and restoration of temporary access is considered incidental to sanitary sewer bid items and will not be paid for individually.

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. Notice to Contractor – Contamination Beyond Construction Limits.

The department completed testing for soil and ground water contamination for locations within this project where excavation is required. Records indicate that petroleum-contaminated soil could potentially be present at the following sites:

Site Name and Location	Description
Edina Realty Site 700 2nd Street Hudson, WI DNR BRRTS No. 03-56-001419 (Closed LUST)	Former LUST site. Tanks have been removed. Potential to encounter petroleum contamination within Construction Limits: Station 22+10 – 23+00, approximately 40' RT from reference line.
Ameritech 801 2nd Street Hudson, WI DNR BRRTS No. 02-56-409743	Former ERP spill incident. Potential to encounter petroleum contamination within construction limits: Station 26+00 - 27+75, approximately 40' LT from reference line.
Hansen Texaco 400 S. 2nd Street Hudson, WI DNR BRRTS No. 03-56-001033 (Closed LUST)	Former LUST site. Tanks have been removed. Potential to encounter petroleum contamination within the Construction Limits: Station 203+00 to Station 206+60, approximately 60 feet LT of reference line and beyond.

Potentially contaminated soils at the above sites are expected to be beyond the excavation limits necessary to complete the work under this project. Control construction operations at these locations to ensure that they do not extend beyond the excavation limits indicated in the plans. If contaminated soils are encountered at these sites or elsewhere on the project during excavation, terminate excavation in the area and notify the engineer.

The Hazardous Materials Report is available by contacting: Mohamad Hayek, 718 W. Clairmont Avenue, Eau Claire, WI 54701, (715) 836-2065.

stp-107-100 (20050901)

15. Notice to Contractor – Groundwater.

It is anticipated that groundwater may be encountered and therefore dewatering required for sanitary sewer installation near the wastewater treatment plant (WWTP) near Stations 205+00 – 218+00 for this deep sanitary sewer installation. Dewatering may be required in other areas due to groundwater or surface water runoff entering the trench as well. Dewatering shall be considered incidental and should be included in the ECIP.

16. Notice to Contractor – Tree Planting.

The work consists of furnishing and installing trees. Use proper horticultural practice in handling all plant material making sure root ball remains intact without cracks or loose soil within the root ball.

Plants shall be warranted to be in a disease free, pest free and healthy growing condition one year from the date of final acceptance by the engineer. The engineer shall notify the contractor in writing of any plants that do not meet the above requirements and the contractor shall replace the dead or diseased plants at the earliest appropriate planting season.

All plant material shall be obtained from a nursery source in hardiness zones 4 or 3. All plant material shall meet the requirements and specifications of the American Association of Nurserymen, American Standard for Nursery Stock (ANSI Z60-1990). Non-conforming plant material may be rejected by the engineer any time prior to final acceptance.

The location of plant holes and beds shall be staked out or painted by the contractor. All marked locations shall be approved by engineer before excavation begins. Plant substitutions for any reason must be approved by the engineer before installation.

17. Notice to Contractor – Monotubes.

There has been a several month backorder for monotube pole delivery. Plan accordingly for ordering to meet project schedules.

18. Construction Over or Adjacent to Navigable Waters.

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

stp-107-060 (20171130)

19. Coordination with Businesses and Residents.

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business 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 two weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

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

A Description

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

B (Vacant)

C Construction

C.1 Equipment

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

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

C.2 Methods

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

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

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

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

D Measurement

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

E Payment

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

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

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

stp-204-041 (20080902)

21. Prepare Foundation for Asphaltic Paving.

Supplement standard spec 211.3.5 as follows:

After the surface has been ground, remove all surplus crack sealing, joint sealing, and asphalt patching materials to a maximum depth of 3 inches below the surface of the ground concrete pavement.

Completely remove unstable patches of asphaltic materials used to fill localized areas of pits, potholes, depressions, badly spalled areas, or disintegrated areas of old pavement. Remove any loose material with incipient spalling within or contiguous to such areas. Prior to refilling, all removal areas shall be cleaned by air blasting or other engineer approved methods.

Prior to placement of the HMA pavement or any wedging or leveling layers, refill these areas of removal, as described above, to the level of the ground surface. The department will pay for refilling these areas under bid item 465.0110 Asphaltic Surface Patching. Before the lower layer of asphalt pavement is placed, correct patching material that extends more than ½ inch above the concrete pavement surface.

22. Concrete Pavement.

Supplement standard spec 715.2 with the following:

- If the geological composition of the coarse aggregate is primarily igneous or metamorphic materials, modify and supplement standard spec 415, standard spec 710, and standard spec 715 with the following:
    1. Concrete placed after September 30 will meet the following requirements: for binary mixes use up to 15% fly ash or slag, except for slip-formed work the contractor may use up to 20% slag and for ternary mixes use up to 25% fly ash and slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
    2. One hundred percent of the aggregate shall pass the 1-inch sieve.
- Use of recycled concrete for coarse aggregate will not be allowed.

23. Protecting Concrete.

Add the following to standard spec 415.3.14:

Provide a minimum of one concrete finisher to remain on the project site after final finishing of all concrete surfaces until such time as the concrete has hardened sufficiently to resist surface scarring caused by footprints, handprints, or any other type of imprint, malicious or otherwise. The finisher shall actively and

continuously patrol the newly placed concrete and repair any damage to the surface that might be sustained as described above.

The cost for providing the finisher(s), necessary equipment, and materials shall be considered incidental to the contract unit price for each concrete item.

24. Cure and Seal of Concrete Pavements.

Modify standard spec 415 as follows:

Treat all newly constructed concrete pavement with a surface cure and seal treatment in place of the poly-alpha-methylstyrene (PAM) as specified in standard spec 415.2.4 as shown on plans, and as hereinafter provided.

Materials shall conform to a clear treating material listed on the current approved WISDOT product list for "Cure and Seal Compounds for Non-Trafficked Surfaces on Structural Masonry".

Application rates for the treating material shall be as according to the manufacturer's specifications or a minimum of one gallon per 150 square feet for tined finishes and one gallon per 200 square feet for other surface finishes.

Furnishing and placement of the cure and seal compound as specified above is considered incidental to the unit prices for Concrete Pavement 8-Inch, Item 415.0080, Concrete Pavement Approach Slab, Item 415.0410, Concrete Pavement HES 8-Inch, Item 415.1080, Concrete Pavement Repair Doweled, Item SPV.0180.03, Concrete Pavement Replacement Doweled, Item SPV.0180.04, and 30" Concrete Centerline Repair, Item SPV.0180.05

25. Concrete Pavement Joint Layout 8080-05-70, Item 415.5110.S.01; Concrete Pavement Joint Layout 8080-07-70, Item 415.5110.S.02; Concrete Pavement Joint Layout 8080-02-61, Item 415.5110.S.04.

A Description

This special provision describes providing a concrete pavement or concrete base joint layout design and marking the location of joints in the field

B (Vacant)

C Construction

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete to prevent uncontrolled cracking. Submit a joint layout design to the engineer at least 7 calendar days before paving. Do not lay out joints until the engineer has reviewed the joint layout design. Mark the location of concrete joints in the field. Follow the plan details for joints in concrete making adjustments as required to fit field conditions.

D Measurement

The department will measure Concrete Pavement Joint Layout as a single lump sum unit for all joint layout designs and marking, 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
415.5110.S.01	Concrete Pavement Joint Layout 8080-05-70	LS
415.5110.S.02	Concrete Pavement Joint Layout 8080-07-70	LS
415.5110.S.04	Concrete Pavement Joint Layout 8080-02-61	LS

Payment is full compensation for providing the joint layout designs and marking all joints in the field.

The department will adjust pay for crack repairs as specified in standard spec 415.5.3.

stp-415-020 (20170615)

26. Concrete Driveway 6-Inch, Item 416.0160; Concrete Sidewalk 6-Inch, Item 602.0415; Concrete Sidewalk 4-Inch, Item 602.0405.

A Description

This special provision describes constructing concrete driveway 6-inch, concrete sidewalk 6-inch, and concrete sidewalk 4-inch according to the requirements of standard spec 416 and standard spec 601, the details shown in the plans, and as hereinafter provided.

B (Vacant)

C Construction

Modify standard spec 601.3.4 (5) to require that contraction joints be sawed.

Saw all transverse contraction joints to a minimum depth of one-third (D/4) of the depth on all concrete driveway 6-inch, concrete sidewalk 6-inch, or concrete sidewalk 4-inch.

D (Vacant)

E Payment

Saw cutting of contraction joints on all concrete driveway 6-inch, concrete sidewalk 6-inch, and concrete sidewalk 4-inch will be considered incidental to the unit prices for Concrete Driveway 6-Inch, Item 416.0160, Concrete Sidewalk 6-Inch, Item 602.0415 and Concrete Sidewalk 4-Inch, Item 602.0405.

27. QMP HMA Pavement Nuclear Density.

A Description

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

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

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

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

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

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

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

http://www.atwoodsystems.com/

B Materials

B.1 Personnel

(1) Nuclear gauge owners and personnel using nuclear gauges shall comply with WisDOT requirements according to 460.3.3 and CMM 8-15.

B.2 Testing

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

B.3 Equipment

B.3.1 General

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

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

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

B.3.2 Comparison of Nuclear Gauges

B.3.2.1 Comparison of QC and QV Nuclear Gauges

(1) Compare QC and QV nuclear gauges according to CMM 8-15.7.

B.3.2.2 Comparison Monitoring

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

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.

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

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

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

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.

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

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

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

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

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

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

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

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

B.4.2.2.2 Width of 5 Feet or Less

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

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

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

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

B.4.2.4 Documentation

(1) Document QC density test data as specified in CMM 8.15. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

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

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

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

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

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

(6) If 2 consecutive sublot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing

B.5.1 Verification Testing

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

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

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

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

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

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

B.5.2 Independent Assurance Testing

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

B.6 Dispute Resolution

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

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

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

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

B.7 Acceptance

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

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

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

E.2 Disincentive for HMA Pavement Density

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

E.3 Incentive for HMA Pavement Density

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

stp-460-020 (20181119)

28. Sawing Pavement Deck Preparation Areas, Item 509.0310.S.

A Description

This special provision describes sawing around deteriorated areas requiring deck repairs under the Preparation Decks bid items on decks receiving asphalt or polymer overlays and for deck repairs that will not receive an overlay.

B (Vacant)

C Construction

The department will sound and mark areas of deteriorated concrete that require deck preparation. The engineer may identify and mark additional areas as the work is being performed.

Wet cut a minimum of 1 inch deep and at least 2 inches outside of the marked areas. Bound each marked area by providing cuts aligned parallel and perpendicular to the deck centerline.

Remove sawing sludge after completing each area. Do not allow sludge or resulting residue to enter a live lane of traffic, storm sewer, stream, lake, reservoir, marsh, or wetland. Dispose of sludge at an acceptable material disposal site located off the project limits or, if the engineer allows, within the project limits.

D Measurement

The department will measure Sawing Pavement Deck Preparation Areas by the linear foot, acceptably completed, measured as the total linear feet of bounding cuts.

The department will not measure for payment over-cuts or cuts made beyond what is required to bound engineer-marked deterioration limits.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.0310.S	Sawing Pavement Deck Preparation Areas	LF

Payment is full compensation for making all saw cuts; and for debris disposal.

stp-509-070 (20180628)

29. Concrete Masonry Deck Repair, Item 509.2100.S.

A Description

This special provision describes providing concrete masonry on the sawed deck preparation areas of the concrete bridge deck and in full depth deck, curb, and joint repair areas. Conform to standard spec 502 and standard spec 509.

B Materials

B.1 Neat Cement

Furnish a neat cement bonding grout. Mix the neat cement in a water-cement ratio approximately equal to 5 gallons of water per 94 pounds of cement.

B.2 Concrete

Furnish grade C, C-FA, C-S, C-IS, C-IP, C-IT, or E concrete conforming to standard spec 501 for deck preparation, full-depth deck repair, curb repair and joint repair areas except as follows:

1. The contractor may increase slump of grade E concrete to 3 inches.
2. The contractor may use ready-mixed concrete.

Provide QMP for class II ancillary concrete as specified in standard spec 716.

C Construction

C.1 Neat Cement

Immediately before placing the concrete deck patching, coat the prepared surfaces with a neat cement mixture. Ensure the prepared concrete surfaces are moist without any standing water before coating with the neat cement mixture. Brush the neat cement mixture over the prepared concrete surfaces to ensure that all parts receive an even coating, and do not allow excess neat cement to collect in pockets. Apply the neat cement at a rate that ensures the cement does not dry out before being covered with the new concrete.

C.2 Placing Concrete

Place concrete conforming to standard spec 509. As determined by the engineer, consolidate smaller areas by internal vibration, strike them off, and finish the areas with hand floats to produce plane surfaces that conform to the grade and elevation of the adjoining surfaces. Give all deck patching areas a final hand float finish.

C.3 Curing Concrete

Cure the concrete masonry deck patching conforming to standard spec 502.2.6(1).

D Measurement

The department will measure the Concrete Masonry Deck Repair bid item by the cubic yard, acceptably completed.

The department will measure concrete used in deck preparation areas and in full depth deck, curb, and joint repair as part of the Concrete Masonry Deck Repair bid item.

The department will not measure wasted concrete.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.2100.S	Concrete Masonry Deck Repair	CY

Payment is full compensation for furnishing, hauling, preparing, placing, finishing, curing, and protecting all materials.

stp-509-060 (20191121)

30. Polymer Overlay, Item 509.5100.S.

A Description

This special provision describes providing two layers of a two-component polymer overlay system to the bridge decks the plans show.

B Materials

B.1 General

Furnish materials specifically designed for use over concrete bridge decks. Furnish polymer liquid binders from the department's approved product list.

B.2 Polymer Resin

Furnish a polymer resin base and hardener composed of two-component, 100 percent solids, 100 percent reactive, thermosetting compound with the following properties:

Property	Requirements	Test Method
Gel Time[1]	15 - 45 minutes @ 73° to 75° F	ASTM C881
Viscosity[1]	7 - 70 poises	ASTM D2393, Brookfield RVT, Spindle No. 3, 20 rpm
Shore D Hardness[2]	60-75	ASTM D2240
Absorption[2]	1% maximum at 24 hr	ASTM D570
Tensile Elongation[2]	30% - 70% @ 7 days	ASTM D638
Tensile Strength[2]	2000 to 5000 psi @ 7 days	ASTM D638
Chloride Permeability[2]	<100 coulombs @ 28 days	AASHTO T277

[1] Uncured, mixed polymer binder

[2] Cured, mixed polymer binder

Ensure that the polymer resin when mixed with aggregate has the following properties:

Property	Requirement[1]	Test Method
Minimum Compressive Strength	1,000 psi @ 8 hrs 5,000 psi @ 24 hrs	ASTM C579 Method B, Modified[2]
Thermal Compatibility	No Delaminations	ASTM C884
Minimum Pull-off Strength	250 psi @ 24 hrs	ASTM C1583

[1] Based on samples cured or aged and tested at 75°F

[2] Plastic inserts that will provide 2-inch by 2-inch cubes shall be placed in the oversized brass molds.

B.3 Aggregates

Furnish natural or synthetic aggregate that is non-polishing; clean; free of surface moisture; fractured or angular in shape; free from silt, clay, asphalt, or other organic materials; and conform to the following:

Aggregate Properties

Property	Requirement	Test Method
Moisture Content[1]	1/2 of the measured aggregate absorption, %	ASTM C566
Hardness	≥6.5	Mohs Scale
Fractured Faces	100% with at least 1 fractured face & 80% with at least 2 fractured faces of material retained on No.16	ASTM D5821
Absorption	≤1%	ASTM C128

[1] Sampled and tested by the department before placement.

Gradation

Sieve Size	% Passing by Weight
No. 4	100
No. 8	30 – 75
No. 16	0 – 5
No. 30	0 – 1

B.4 Approval of Bridge Deck Polymer Overlay System

A minimum of 20 working days before application, submit product data sheets and specifications from the manufacturer, and a certified report of test or analysis from an independent laboratory to the engineer for approval. The department will sample and test the aggregates for gradation and moisture content before placement. If requested, supply the department with samples of the polymer for the purpose of acceptance testing.

B.4.1 Product Data Sheets and Specifications

Product data sheets and specifications from the manufacture consists of literature from the manufacturer showing general instructions, application recommendations/methods, product properties, general instructions, or any other applicable information.

B.4.2 Certified Report of Test or Analysis

Conform to the following:

Polymer Binder: Submit a certified report of test or analysis from an independent laboratory dated less than 3 years before the date of the project letting showing the polymer binder meets the requirements of section B.2.

Aggregates: Submit a certified report of test or analysis from an independent laboratory dated less than 6 months before the date of the project letting showing the aggregates meet the requirements of section B.3.

C Construction

C.1 General

Ensure that the overlay system is 1/4 inch thick or thicker.

Conform to the following:

Field Review: Conduct a field review of the existing deck to identify any possible surface preparation and material compatibility issues.

Pre-Installation Meeting: Conduct a pre-installation meeting with the manufacturer's representative and the engineer before construction. Discuss the field review findings, verification testing of the surface preparation and establish procedures for maintaining optimum working conditions and coordination of work. Furnish the engineer a copy of the recommended procedures and apply the overlay system according to the manufacturer's instructions. Supply for the engineer's use for the duration of the project, a Concrete Surface Profile (CSP) chip set of 10 from the International Concrete Repair Institute (ICRI).

Manufacturer's Representative: An experienced manufacturer's representative familiar with the overlay system installation procedures shall be present at all times during surface preparation and overlay placement to provide quality assurance that the work is being performed properly. This requirement may be reduced at the engineer's discretion.

Material Storage: Store and handle materials according to the manufacturer's recommendations. Store resin materials in their original containers in a dry area. Store all aggregates in a dry environment and protect aggregates from contaminants on the job site.

C.2 Deck Preparation

C.2.1 Deck Repair

Remove all asphaltic patches and unsound or disintegrated areas of the concrete decks as the plans show, or as the engineer directs. Work performed to remove and repair the concrete deck will be paid for under other items.

Use deck patching products that are compatible with the overlay system. Patching materials with magnesium phosphate shall not be used. Place patches after surface is prepared via shot blasting and cleaning as described in Section C.2.2 of this specification. Portland cement concrete patches shall be used for joint repairs and full depth deck repairs with a plan area larger than 4 sf, unless approved otherwise by the Structures Design Section. If rapid-set concrete is used, place patches per the manufacturer's recommendation. If Portland cement concrete is used, place patches per standard spec 509.3.9.1.

Deck patching shall be filled and properly finished prior to overlay placement. Do not place overlay less than 1 hour, or per the manufacturer's recommendation, after placing rapid-set concrete patches in the repair areas. Do not place overlay less than 28 days after placing Portland cement concrete patches in the repair areas.

C.2.2 Surface Preparation

Determine an acceptable shotblasting machine operation (size of shot, flow of shot, forward speed, and/or number of passes) that provides a surface profile meeting CSP 5 (medium-heavy shotblast) according to the ICRI Technical Guideline No. 310.2. If the engineer requires additional verification of the surface preparation, test the tensile bond strength according to ASTM C1593. The surface preparation will be considered acceptable if the tensile bond strength is greater than or equal to 250 psi or the failure area at a depth of 1/4 inches or more is greater than 50 percent of the test area. Continue adjustment of the shotblasting machine and necessary testing until the surface is acceptable to the engineer or a passing test result is obtained.

Prepare the entire deck using the final accepted adjustments to the shotblasting machine as determined above. Thoroughly blast clean with hand-held equipment any areas inaccessible by the shotblasting equipment. Do not perform surface preparation more than 24 hours before the application of the overlay system.

Protect drains, expansion joints, access hatches, or other appurtenances on the deck from damage by the shot and sand blasting operations and from materials adhering and entering. Tape or form all construction joints to provide a clean straight edge.

Before shot blasting, remove pavement markings within the treatment area using an approved mechanical or blasting method.

Prepare the vertical concrete surfaces adjacent to the deck a minimum of 2" above the overlay according to SSPC-SP 13 (free of contaminants, dust, and loose concrete) by sand blasting, using wire wheels, or other approved method.

Just before overlay placement, clean all dust, debris, and concrete fines from the prepared surfaces including the vertical surfaces with compressed air. When using compressed air, the air stream must be free of oil. Any grease, oil, or other foreign matter that rests on or has absorbed into the concrete shall be removed completely. If prepared surfaces (including the first layer of the polymer overlay) are exposed to rain or dew, lightly sandblast (brush/breeze blast) the exposed surfaces.

The engineer may consider alternate surface preparation methods per the overlay system manufacture's recommendations. The engineer will approve the final surface profile and deck cleanliness before the contractor placing the polymer overlay.

C.2.3 Transitional Area

If the plans show, create a transitional area approaching transverse expansion joints and ends of the deck using an approved mechanical or blasting method. Remove 1/4 inch to 5/16 inch of concrete adjacent to the joint or end of deck and taper a distance of 3 feet.

If the plans show, create a transitional area on the approach pavement. Prep and place the first lift 3 feet beyond the end of the deck the same width as the deck. Prep and place the second lift 6 feet beyond the end of the deck the same width as the deck.

C.3 Overlay Application

Perform the handling and mixing of the polymer resin and hardening agent in a safe manner to achieve the desired results according to the manufacturer's instructions. Do not apply the overlay system if any of the following exists:

1. Ambient air temperature is below 50 F or above 100 F.
2. Deck temperature is below 50 F.
3. Moisture content in the deck exceeds 4.5 percent when measured by an electronic moisture meter or shows visible moisture after 2 hours when measured according to ASTM D4263.
4. Rain is forecasted during the minimum curing periods listed under C.5.
5. Materials component temperatures below 65 F or above 99 F.
6. Concrete deck age is less than 28 days.
7. The deck temperature exceeds 100 F.
8. If the gel time is 10 minutes or less at the predicted high air temperature for the day.

After the deck has been shotblasted or during the overlay curing period, only necessary surface preparation and overlay application equipment will be allowed on the deck. Provide appropriate protective measures to prevent contamination from equipment allowed on the deck during preparation and application operations. Begin overlay placement as soon as possible after surface preparation operations.

The polymer overlay shall consist of a two-course application of polymer and aggregate. Each of the two courses shall consist of a layer of polymer covered with a layer of aggregate in sufficient quantity to completely cover the polymer. Apply the polymer and aggregate according to the manufacturer's requirements. Apply the overlay using equipment designed for this purpose. The application machine shall feature positive displacement volumetric metering and be capable of storing and mixing the polymer resins at the proper mix ratio. Disperse the aggregate using a method that provides a uniform, consistent coverage of aggregate and minimizes aggregate rolling or bouncing into final position. First course applications that do not receive enough aggregate before the polymer gels shall be removed and replaced. A second course applied with insufficient aggregate may be left in place, but will require additional applications before opening to traffic.

After completion of each course, cure the overlay according to the manufacturer's instructions. Follow the minimum cure times listed under C.5 or as prescribed by the manufacturer. Remove the excess aggregate from the surface treatment by sweeping, blowing, or vacuuming without tearing or damaging the surface; the material may be re-used if approved by the engineer and manufacturer. Apply all courses of the overlay system before opening the area to traffic. Do not allow equipment or traffic on the treated area until directed by the engineer.

After the first layer of coating has cured to the point where the aggregate cannot be pulled out, apply the second layer. Before applying the second layer, broom and blow off the first layer with compressed air to remove all loose excess aggregate.

Before opening to traffic, clean expansion joints and joint seals of all debris and polymer. A minimum of 3 days following opening to traffic, remove loosened aggregates from the deck, expansion joints, and approach pavement.

C.4 Application Rates

Apply the polymer overlay in two separate courses according to the manufacturer's instructions, but not less than the following rate of application.

Course	Minimum Polymer Rate[1] (GAL/100 SF)	Aggregate[2] (LBS/SY)
1	2.5	10+
2	5.0	14+

[1] The minimum total applications rate is 7.5 GAL/100 SF.

[2] Application of aggregate shall be of sufficient quantity to completely cover the polymer.

C.5 Minimum Curing Periods

As a minimum, cure the coating as follows:

	Average temperature of deck, polymer and aggregate components in degrees F							
Course	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99
1	6 hrs.	5 hrs.	4 hrs.	3 hrs.	2.5 hrs	2 hrs	1.5 hrs.	1 hr.
2	8 hrs.	6.5 hrs.	6.5 hrs.	5 hrs.	4 hrs.	3 hrs.	3 hrs.	3 hrs.

If faster cure times are desired and achievable, submit to the engineer a certified test report from an independent laboratory showing the material is able to reach a compressive strength of 1000 psi as tested per ASTM C 579 Method B within the temperature ranges and cure times for which the product is proposed to be placed. Establish ambient air, material, and substrate temperatures from the manufacturer for field applications. Field applications will not be allowed below the documented temperatures.

C.6 Repair of Polymer Overlay

Repair all areas of unbonded, uncured, or damaged polymer overlay for no additional compensation. Submit repair procedures from the manufacturer to the engineer for approval. Absent a manufacturer's repair procedures and with the approval of the engineer, complete repairs according to the following: Saw cut the limits of the area to the top of the concrete; remove the overlay by scarifying, grinding, or other approved methods; shot blast or sand blast and air blast the concrete before placement of polymer overlay; and place the polymer overlay according to section C.3.

D Measurement

The department will measure Polymer Overlay by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.5100.S	Polymer Overlay	SY

Payment is full compensation for preparing the surface; for tensile bond testing; for creating the transitional area; for providing the overlay; for cleanup; and for sweeping/vacuuming and disposing of excess materials.

The department will pay separately for deck repairs.

stp-509-030 (20200629)

31. Catch Basins, Manholes, and Inlets.

Construct catch basins, manholes, and inlets according to standard spec 611 except as hereinafter modified:

Construct catch basins, manholes, and inlets using only precast or cast in place concrete masonry options. The brick masonry or concrete block or block masonry options shall not be used.

32. Adjusting Manhole Covers, Item 611.8110.

This special provision describes adjusting manhole covers conforming to standard spec 611 as modified in this special provision.

Adjust manhole covers located in pavement areas in two separate operations. Initially, remove designated manhole covers along with sufficient pavement to permit installation of temporary cover plate over the opening. Fill the excavated area with asphaltic pavement mixture, which shall remain in place until contract milling and paving operations permit setting the manhole frames to grade. During the second phase, remove the asphaltic pavement mixture surrounding the manhole plus the temporary cover plate, and set the manhole cover to final grade. The department will measure and pay for the items of asphaltic pavement mixture, temporary cover plate, milling, and paving separately.

Supplement standard spec 611.3.7 with the following:

Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9. At the completion of the paving, a 6-foot straightedge shall be placed over the centerline of each manhole frame parallel to the direction of traffic. A measurement shall be made at each side of the frame. The two measurements shall be averaged. If this average is greater than 5/8 inches, reset the manhole frame to the correct plane and elevation. If this average is 5/8 inches or less but greater than 3/8 inches, the manhole frame shall be allowed to remain in place but shall be paid for at 50 percent of the contract unit price.

If the manhole frame is higher than the adjacent pavement, the two measurements shall be made at each end of the straightedge. These two measurements shall be averaged. The same criteria for acceptance and payment as above, shall apply.

stp-611-005 (20200629)

33. 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)

34. 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)

35. Landscape Planting Surveillance and Care Cycles.

If the care specialist fails to perform any of the required care cycles as specified in standard spec 632.3.19.1, the department will assess daily damages in the amount of $500 to cover the cost of performing the work with other forces. The department will assess these damages for each day the requirements of the care cycle remain incomplete, except when the engineer extends the required time period.

stp-632-005 (20070510)

36. Landscaping Between Front Street and Vine Street.

Existing landscaping on private property is in close proximity to the required grading limits shown in the plan in multiple locations between Front Street and Vine Street. Take extra care to limit disturbing existing landscaping as much as possible. All work that impacts existing landscaping is incidental to the Removing Concrete Sidewalk item.

37. Removing Signs Type II, Item 638.2602.

This work shall be according to the pertinent requirements of standard spec 638 and as provided here.

Type II signs are the department's property. All DOT signs removed, and not identified for reuse, shall be separated, plywood from aluminum signs, and the aluminum signs shall be palletized for shipment and handling with a forklift. Contact DTSD Sign Shop Coordinator Steve Allard at (715) 577-1259 at least three business days prior to delivery to coordinate shipment to be delivered to the DTSD Sign Shop Distribution Center at one of the following locations:

Dunn County Highway Shop, 3303 USH 12 East, Menomonie, WI 54751

LaCrosse County Highway Shop, 301 Carlson Rd, West Salem, WI 54669

Price County Highway Shop, 704 N. Lake Ave, Phillips, WI 54555

Washburn County Highway Shop, 1600 CTH H, Spooner, WI 54801

Wood County Highway Shop, 555 17th Ave North, Wisconsin Rapids, WI 54495

38. Field Office.

Add the following to standard spec 642:

For field offices without handwashing facilities, provide and maintain a portable handwashing station at every project field office. The station shall include a hands-free sink with foot pump-operated faucet, soap dispenser, paper towel dispenser, fresh water supply, and collection tank for gray water. Regularly service and maintain the handwashing station and all supplies as needed, and properly dispose of all materials. Costs associated with the handwashing station are incidental to the field office bid item.

stp-642-010 (20200629)

39. Construction Staking Slope Stakes, Item 650.9920.

Supplement standard spec 650.3.13 with the following:

Provide plan horizontal and vertical locations to the back edge of sidewalk at each slope stake location.

40. Signal Controller Training, Item 651.1000.S.

A Description

This special provision describes providing training and instruction relating to the operation, maintenance, and installation of the traffic signal controller and associated equipment.

B (Vacant)

C Construction

Provide a competent representative capable of instructing the operators of the system in (a) theory of application and operation; (b) electronic circuitry; and (c) hands-on, trouble shooting of the equipment. Conduct instruction and training at the job site or other approved location and furnish a partially assembled or breakdown equivalent model of the controller to assist in teaching the operators in theory, assembly, operation, and maintenance.

Provide a minimum of 16 hours of training. Provide operations and maintenance manuals for all training participants.

D Measurement

The department will measure Signal Controller Training 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
651.1000.S	Signal Controller Training	LS

Payment is full compensation for furnishing the instructor, controller model, and operations and maintenance manuals; and for providing training.

stp-651-005 (20030820)

41. Removal of Conduit and Conductors.

Existing lighting conduit and conductors will be removed from the project as a result of work associated with roadway and sidewalk construction. Existing conduit and conductors not planned for reuse shall be disconnected from the existing lighting units and service cabinets prior to removal. The removal of existing conduit and conductors not planned for reuse shall be considered incidental to the project. Removed lighting conduit and conductors shall become the property of the contractor.

42. Traffic Signals, General.

Existing City of Hudson aboveground traffic signal equipment from the Coulee Street intersection shall be salvaged and delivered to the City of Hudson shop located at 1425 2nd Street. Contact Dean Chamberlain at (715) 716-5729 prior to delivery. Cost for delivery of traffic signal equipment shall be considered incidental to other electrical items in the contract.

Existing Wisconsin DOT aboveground traffic signal equipment from the Monroe Street intersection shall be salvaged and delivered to the WisDOT Electrical shop located at: 5009 Hwy 53 S, Eau Claire, WI 54701. Contact the department's Electrical Field Unit at (715) 577-3854 prior to delivery. Cost for delivery of traffic signal equipment shall be considered incidental to other electrical items in the contract.

The traffic signal cabinet, controller, and emergency vehicle preemption for the STH 35 and Monroe Street intersection will be provided and installed by the department's Regional Electrical Field Unit. Notify at (715) 577-3854 at least 3 weeks prior to the beginning of the signal work.

43. Lighting, General.

Maintain existing street lighting as long as possible before switching over to proposed lighting. If existing lighting cannot be maintained provide temporary lighting until new system is operational. Temporary lighting can be existing or temporary poles and fixtures and is considered incidental to other lighting items in the plan.

44. Electrical, General.

Notify the department's Electrical Filed Unit at (715) 577-3854 at least 3 weeks prior to beginning of the Electrical work. The department's Regional Electrical personnel will perform the inspections.

Electrical item inspections are required at the following times: after the staking of all electrical underground items, islands, curb and gutter and medians; before the pouring of all lighting and cabinet bases; before cable and wire are pulled; during field terminations at the lighting bases; and prior to the installation of any poles or other above ground electrical items.

Request electrical inspections of the completed lighting work to the engineer and contact the department's Electrical Field Unit at (715) 577-3854 at least five working days prior to the time of the requested inspection.

45. Traffic Signal Face 3S 12-Inch, Item 658.0173; Traffic Signal Face 4S 12-Inch, Item 658.0174.

Replace standard spec 658.2(2) with the following:

(2) Furnish materials from the department's QPL as follows:

- Traffic signal faces including signal housings, backplates, retroreflective backplates and LED modules.
- Pedestrian signal faces including signal housing and LED modules.
- Pedestrian push buttons.
- Signal mounting hardware.

46. Optimized Aggregate Gradation Incentive, Item 715.0710.

Description

This special provision describes optional contractor optimized aggregate gradation, optional optimized mixture designs, and associated additional requirements for class 1 concrete used in concrete pavements. Conform to standard specification part 7 and as follows:

Optimized Aggregate Gradation

Replace standard spec 715.2.2 with the following:

A Job Mix Formula (JMF) contains all of the following:

- Proportions for each aggregate fraction conforming to table 1.
- Individual gradations for each aggregate fraction.
- Composite gradation of the combined aggregates including working ranges on each sieve according to table 2.

Submit the target JMF and aggregate production gradation test results to the engineer for review 10 business days before initial concrete placement.

TABLE 1 TARANTULA CURVE GRADATION BAND

SIEVE SIZES	PERCENT RETAINED
2 in.	0
1 1/2 in.	≤ 5
1 in.	≤16
3/4 in.	≤ 20
1/2 in.	4-20
3/8 in.	4-20
No. 4	4-20
No. 8[1]	≤12
No. 16[1]	≤12
No. 30[1] [2]	4-20
No. 50 [2]	4-20
No. 100 [2]	≤10
No. 200 [2]	≤ 5.0

[1] Minimum of 15% retained on the sum of the #8, #16, and #30 sieves.

[2] Conform to 24-34% retained of fine sand on the #30-200 sieves.

TABLE 2 JMF WORKING RANGE

SIEVE SIZES	WORKING RANGE[1] (PERCENT)
2 in.	+/- 5
1 1/2 in.	+/- 5
1 in.	+/- 5
3/4 in.	+/- 5
1/2 in.	+/- 5
3/8 in.	+/- 5
No. 4	+/- 5
No. 8	+/- 4
No. 16	+/- 4
No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2
No. 200	+/- 2

[1] Working range limits of composite gradation based on moving average of 4 tests.

Replace standard spec 710.5.6 with the following:

Determine the complete gradation, including P200, using a washed analysis for both fine and coarse aggregates. Test each stockpile for each component aggregate once per 1,500 cubic yards during concrete production.

Take samples by one of the following sampling methods:

1. At the belt leading to the weigh hopper.
2. Working face of the stock piles at the concrete plant if approved by the engineer.

The department will take independent QV samples using the same sampling method the contractor uses for QC sampling. QV samples may be taken by the contractor's QC personnel if witnessed by the department's QV personnel. The department will split each QV sample and retain half for all dispute resolutions. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

If, during concrete production, the moving average of four for any sieve fall outside the allowable JMF working range do the following:

1. Notify the engineer of the test results within 1 business day from the time of sampling.
2. Make immediate adjustments to the JMF, within the limits specified in Table 3;
3. Review JMF adjustments with the engineer. Both the contractor and engineer will sign the adjusted JMF if the adjustments comply with Table 3.
4. If the moving average of four falls outside the adjusted allowable working range, stop production and provide a new mix design including JMF to the engineer.

TABLE 3 ALLOWABLE JMF ADJUSTMENTS

SIEVE SIZES	ALLOWABLE ADJUSTMENT (PERCENT)
≥ No. 4	+/- 5
No. 8 – No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2

Dispute Resolution

The department will resolve disputes as specified in standard spec 106.3.4.3.5 using QV split samples.

Sublot and Lot Size

A sublot consists of up to 1,500 cubic yards. A lot consists of two sublots.

Optimized Concrete Mixtures

The contractor may use a reduced cementitious content for concrete pavement placed if the contractor does the following:

1. Use an optimized aggregate gradation as defined in this special provision.
2. Conform to the additional testing requirements for flexural strength as specified in the contract special provisions.
3. Submit aggregate gradation result records no more than 2 years old when developing the mix design.
4. Determine the volume of voids in the optimized aggregates using ASTM C29.
5. Download and follow the instructions tab of the Optimized Gradation and Mix Design Spreadsheet located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
6. Design an appropriate paste content based upon the Performance-based PCC Mix Design Guide located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
7. Provide a minimum Vpaste/Vvoids of 1.25. (Paste/Void ratio equals the volume of paste divided by the volume of voids.).
8. Evaluate workability of trial batches by following section 6.8 of AASHTO Draft Performance Engineered Concrete Pavement Mixtures Specifications located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
9. Submit trial batch workability results when submitting the mix design.
10. Submit the CP Tech center computer spreadsheet concrete mix design to the engineer for review at least 3 business days before producing concrete.
11. Provide a minimum cement content of 520 pounds per cubic yard, except if using type I, IL, or III cement in a mix where the geologic composition of the coarse aggregate is primarily igneous or metamorphic materials, provide a minimum cement content of 660 pounds per cubic yard.
12. The contractor may use class C fly ash or grade 100 or 120 slag as a partial replacement for cement. For binary mixes use up to 30% fly ash or slag. For ternary mixes use up to 30% fly ash plus slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
13. See CMM 8-70.2.2.3 for additional guidance.

Measurement

The department will measure Optimized Aggregate Gradation Incentive by the dollar, for each combined averaged lot of QC test results meeting Table 1.

Payment

The department will pay incentive of 3 percent of the contract unit price for concrete pavement under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
715.0710	Optimized Aggregate Gradation Incentive	DOL

stp-715-005 (20200629)

47. Concrete Pavement Flexural Strength.

This special provision describes accepting concrete pavement based on flexural strength. Conform to standard spec part 7 as modified in this special provision.

Add the following to standard spec table 701-2:

TEST	TEST STANDARD
Flexural Strength of Concrete	AASHTO T97

Replace standard spec 710.5.5 with the following:

710.5.5 Strength

(1) Cast all 6-inch by 12-inch cylinders or 6-inch x 6-inch x 21-inch beams in a set from the same sample. Do not cast more than one set of specimens from a single truckload of concrete. Mark each specimen to identify the lot and sublot or location on the project it represents.

(2) Provide facilities for initial curing. For up to 48 hours after casting, maintain the temperature adjacent to the specimens in the range of 60 to 80 F and prevent moisture loss. Between 24 and 48 hours after casting, transport the specimens to a department-qualified laboratory for standard curing until testing at 28 days.

(3) Determine the 28-day strength of each specimen in psi. Test each specimen to failure. Use a testing machine that automatically records the date, time, rate of loading, and maximum load of each specimen. Provide a printout of this information for each specimen tested.

Replace standard spec 715.2.1(2) with the following:

(2) The contractor need not provide separate laboratory mix designs for high early strength concrete nor provide routine 28-day strength tests during placement for high early strength concrete.

Replace standard spec 715.2.3.1(1) with the following:

(1) Use at least 5 pairs of beams to demonstrate the flexural strength of a mix design. Use either laboratory strength data for new mixes or field strength data for established mixes. Demonstrate that the 28-day flexural strength of the proposed mix will equal or exceed the 85 percent within limits criterion specified in 715.5.2.

Replace standard spec 715.3.1.1(1) with the following:

(1) Provide slump, air content, concrete temperature, and strength test results as specified in 710.5. Provide a battery of QC tests, consisting of results for each specified property, using a single sample randomly located within each sublot. Cast 3 specimens for strength evaluation.

Replace standard spec 715.3.1.3(1) with the following:

(1) The department will perform verification testing for air content, slump, temperature, and strength at a minimum of 1 verification test per lot.

Replace standard spec 715.3.2.1 with the following:

715.3.2.1 General

(1) The department will make pay adjustments for strength on a lot-by-lot basis using the strength of contractor QC specimens. The department will use flexural strength for pavements and compressive strength for structures. The department will assess concrete for removal and replacement based on a sublot-by-sublot analysis of core strength. Perform coring and testing, fill core holes with an engineer approved non-shrink grout, and provide traffic control during coring.

(2) Randomly select 2 QC strength specimens to test at 28 days for percent within limits (PWL). Compare the strengths of the 2 randomly selected QC specimens and determine the 28-day sublot average strength as follows:

- If the lower strength divided by the higher strength is 0.9 or more, average the 2 QC specimens.
- If the lower strength divided by the higher strength is less than 0.9, break one additional specimen and average the 2 higher strength specimens.

Replace standard spec 715.3.2.2.1 with the following:

715.3.2.2.1 Pavement

(1) If a sublot strength is less than 500 psi, the department may direct the contractor to core that sublot to determine its structural adequacy and whether to direct removal. Cut and test cores according to AASHTO T24 as and where the engineer directs. Have an HTCP-certified PCC technician I perform or observe the coring.

(2) The sublot pavement is conforming if the compressive strengths of all cores from the sublot are 2500 psi or greater or the engineer does not require coring.

(3) The sublot pavement is nonconforming if the compressive strengths of any core from the sublot is less than 2500 psi. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

Replace standard spec 715.5.1 with the following:

715.5.1 General

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

ITEM NUMBER	DESCRIPTION	UNIT
715.0415	Incentive Strength Concrete Pavement	DOL
715.0502	Incentive Strength Concrete Structures	DOL

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

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

(4) The department will adjust pay for each lot using PWL of the 28-day sublot average strengths for that lot. The department will measure PWL relative to the lower specification limit of 650 psi for pavements and 4000 psi for structures. The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.1.

(5) Submit strength results to the department electronically using the MRS software. The department will validate contractor data before determining pay adjustments.

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

Replace standard spec 715.5.2 with the following:

715.5.2 Pavements

(1) The department will adjust pay for each lot using equation “QMP 6.01” as follows:

Percent Within Limits (PWL)	Pay adjustment (dollars per square yard)
≥ 95 to 100	(0.2 x PWL) - 19
≥ 85 to < 95	0
≥ 50 to <85	(2.0/35 x PWL) - 170/35
<50	-2

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

(3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive but the department will assess a disincentive based on the individual sublot average strengths. The department will reduce pay for sublots with an average strength below 600 psi by $2 per square yard.

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

48. Gate Valve & Box 4-Inch, SPV.0060.01; Gate Valve & Box 6-Inch, SPV.0060.02; Gate Valve & Box 8-Inch, SPV.0060.03; Gate Valve & Box 12-Inch, SPV.0060.04.

A Description

This work shall consist of furnishing and installing gate valves and valve boxes.

B Materials

Gate valves are to be Waterous American Flow Control 2500 or equal resilient-seated valves meeting the requirements of A.W.W.A. Standard C515 and shall be designed for 250 psi working pressure. The gate valves are to have mechanical joint ends with Cor-Blue T-Head or approved equal bolts and nuts. Stem to be non-rising operating stem with “O” ring seals, and a 2-inch square operating nut, that opens left. An open indicating arrow, the manufacturer’s name, pressure rating, size, and year of manufacture are to be cast on the body of the valve. Any valves installed a greater than 9.5 foot bury shall be provided with a valve box operating nut extension.

All valves are to be provided with vertical valve boxes, Buffalo type Tyler 6860 Series Style “F” or approved equal with two bottom length sections. No threaded insert sections are allowed. Tyler 2 to 4-inch risers with approved sealant are acceptable. Lid shall be marked “WATER.” Valve boxes are to be cast iron conforming to ASTM Designation A-48, Class 20, with a 5 1/4-inch diameter shaft and adjustable. The castings shall be thoroughly coated with a 1-mil minimum thickness bituminous coating. Valve boxes are to be provided with 8 feet of cover, except where greater depths are indicated on the profiles of the plans. Valve boxes are to be at least three pieces with sufficient adjustment to provide at least 6 inches of adjustment above and below grade.

Provide gate valve adapter with 1/2 inch rubber gasket installed between gate valve and gate valve adapter. The gate valve adapter shall be installed on the valve prior to placing bonnet section of valve box assembly, as manufactured by Adaptor, Inc., or approved equal.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

Set valves with stems vertical and plumb on subgrade material adequate to support valve assembly. Firmly support valve boxes and maintain them center and plumb over the wrench nut of the valve utilizing adaptor. Verify that box remains plumb and centered during backfill, by sliding a piece of Schedule 3034 4.25-inch diameter PVC sewer pipe into the box, with box cover adjusted to the final surface or at such other level as may be directed. Valve boxes that become shifted or filled during backfilling shall be entirely uncovered and reset.

D Measurement

The department will measure Gate Valve & Box (size) by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Gate Valve & Box 4-Inch	EACH
SPV.0060.02	Gate Valve & Box 6-Inch	EACH
SPV.0060.03	Gate Valve & Box 8-Inch	EACH
SPV.0060.04	Gate Valve & Box 12-Inch	EACH

Payment is full compensation for excavating, backfilling, dewatering, sheeting, shoring, for furnishing and installing gate valves, valve box operating nut extension, bolts, nuts, and gaskets and adjusting valve box height.

49. Remove Hydrant, SPV.0060.05.

A Description

This work shall consist of removing and disposing of existing hydrants.

B (Vacant)

C Construction

Remove and dispose of existing hydrants designated for removal. Place “Out of Service” bags on hydrants that are offline but not yet removed.

D Measurement

The department will measure Remove Hydrant by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Remove Hydrant	EACH

Payment is full compensation for excavating, backfilling, dewatering, sheeting, shoring, and disposal.

50. Hydrant, Item SPV.0060.06.

A Description

This special provision describes furnishing and installing new hydrant, connecting couplings, crushed rock, concrete base, and blocking, all as shown on the plans and as provided by these specifications.

B Materials

Hydrants are to meet the requirements of AWWA Standard C502. Hydrants shall be Waterous Pacer WB-67-250 or equal. The hydrants shall have two 2 1/2-inch hose connections and one 4 1/2-inch steamer connection. Hydrants shall have a 16-inch upper barrel section. Hydrants shall open left and be provided with a drain to operate only when the hydrant is closed. Hydrants will have a 6 inch mechanical joint hub, a 5 1/4-inch valve opening, an “O” ring stem seal, and 1 1/2-inch pentagon nut type nozzle cups complete with chains, and have minimum 8 feet of cover above the top of the hydrant lead pipe to finished ground. Hydrants shall be painted red and include permanent markings with manufacturer’s name, year of manufacture, and bury depth.

Hub shall be 6-inch mechanical joint with Megalug restraints.

Bolts and nuts shall be Cor-Blue T-Head or approved equal.

Hydrant locating device shall be 60-inch E-Z Guide Safety Marker, RoDon HydraFinder, or approved equal. Locating Rod shall be at least 60-inches long with red and white reflective markings and a spring mounted base or approved equal.

Hydrant extensions, if required, shall not exceed 42-inches in height and shall be manufactured by manufactured by the same manufacturer of the hydrant. Food grade oil shall be used in the reservoir.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

Locate hydrants as directed by Hudson Public Utilities and place as shown on the details of the plans. Verify that subgrade material is adequate to support hydrant and place thrust block according to drawing details. Install and maintain hydrant in a plumb position with the nozzles parallel with or at right angles to the curb, with the steamer nozzle facing the curb. Restrain all joints between Hydrant and tee. After each hydrant has been set, place around the base of the hydrant 1 cubic yard of 1 1/2-inch washed rock. Place two layers of 10 mil polyethylene over the rock to prevent backfill material from entering voids in the rock. Disinfect and test hydrants in conjunction with and as part of the mainline disinfection and testing process.

Plug hydrant drain hole if hydrant is located where depth to groundwater is less than 8 feet. Also label hydrant with tag stating “Pump After Use” and notify Hudson Public Utilities.

Install locating rod.

Hydrant extensions shall be installed according to manufacturer’s requirements. Hydrant extension shall be pressurized and observed for leaks. Hydrant extension tab shall be affixed.

If the coatings are damaged in transit or during construction, contractor shall clean all rust and other contamination from the hydrant body and apply two coats of touch up paint according to manufacturer’s requirements.

Place “Out of Service” bags on hydrants that are installed but not yet online.

D Measurement

The department will measure Hydrant by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Hydrant	EACH

Payment is full compensation for furnishing and placing hydrant, locating rod, hydrant extension, crushed rock, concrete base and blocking.

51. Connect to Existing Water Main, Item SPV.0060.07.

A Description

This special provision describes cutting into and connecting new water main to existing watermain as shown on the plans and as provided by these specifications.

B Materials

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions.

C Construction

Connecting to Existing Watermain shall conform to industry standards. Only representatives of the owner are permitted to operate valves on existing system. The contractor will give the owner at least 48-hour notice when it is necessary to take an existing water main out of service.

Disinfect all connection materials with a 50 parts per million chlorine solution.

Disruption of water service will be during a low usage period typically after 9 am and before 5 pm. The contractor will have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

Pressure Tap: Install in location shown on the Drawings. Use approved tapping machine designed specifically for tapping under pressure. Install tapping sleeve and gate valve as part of assembly. Install blocking as required.

Cut–In Connection: Isolate segment of pipe to be cut and drain water from the line. Connect tee and sleeve assembly to pipe ends. Install blocking as required.

Connect to In-Place Fitting: Isolate segment of in-place pipe and remove blocking as required. Remove plug and drain water from the line. Install blocking as required.

Contractor shall verify the exact location, depth, size and material of the existing water main at connection points and shall notify the city immediately of any discrepancies.

Provide conductivity straps between new and old water mains. Provide temporary conductor from connection to above-grade location to allow conductivity testing.

D Measurement

The department will measure Connect to Existing Water Main by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Connect to Existing Water Main	EACH

Payment is full compensation for locating, tapping and/or cutting existing watermain, removing any plugs or pipe, connecting to existing watermain, furnishing and installing all materials, including any required connecting adaptors, sleeves and fittings, and backfilling.

52. Curb Stop & Box 1-Inch, Item SPV.0060.08; Curb Stop & Box 1 1/2-Inch, Item SPV.0060.09.

A Description

This special provision describes furnishing and installing water service curb stop valves and boxes all as shown on the plans, as further directed by Hudson Public Utilities in the field and as provided for by these specifications.

B Materials

Curb stops shall be Mueller 300 Ball B-25154, B-25155 or approved equal. Curb stops will have copper service thread compression joints on the inlet and outlet.

All fittings shall conform to ANSI/AWWA Standard C800, latest edition. All brass components in contact with potable water must be made from no-lead brass. Brass alloys not listed in ANSI/AWWA C800 Paragraph 4.1.2 are not approved. Brass saddles shall be made from CDA/UNS C83600. All service fittings shall be certified as suitable for contact with drinking water by an ANSI accredited organization with ANSI/NSF Standard 61, Drinking Water Systems Components - Health Effects. All fittings shall be stamped or embossed with a mark or name indicating the product is manufactured from no-lead alloy.

Curb boxes will be Minneapolis pattern base made with cast iron conforming to ASTM Designation A-48 Class 20, have minimum 1 1/2-inch inside diameter upper section Mueller H-10302 or approved equal, and be adjustable six inches up and down for 8.0 feet of cover. The castings shall be thoroughly coated with a 1-mil thickness bituminous coating. Bottom threads of curb box will match top threads of curb stop. Lid marked “WATER” with pentagon threaded brass plug.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to Standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

Locate curb stop and box as shown on the plans. Verify that subgrade material is adequate to support the curb box assembly and install boxes plumb and centered over the tee head. Backfill to avoid displacement or bending of the curb box.

Install copper service pipe between corporation stops and curb stops with no joints or unions. Bury depth shall be 8 feet. Provide 1-foot of slack in the pipe to allow for settlement and movement.

Disinfect each curb stop by immersing it into a 50 parts per million chlorine solution.

Adjust box cover to required grade and key all curb stops after backfilling to ensure proper location.

Mark location of curb boxes in the curb by stamping a “W” into the top of curb and painting it blue.

D Measurement

The department will measure Curb Stop & Box (size) by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Curb Stop & Box 1-Inch	EACH
SPV.0060.09	Curb Stop & Box 1 1/2-Inch	EACH

Payment is full compensation for furnishing and installing all materials.

53. Corporation 1-Inch, Item SPV.0060.10; Corporation 1 1/2-Inch, Item SPV.0060.11.

A Description

This special provision describes furnishing and installing water service corporations as shown on the plans, as further directed by Hudson Public Utilities in the field and as provided by these specifications.

B Materials

Corporation shall be Mueller B-25008 or approved equal. The inlet shall have an AWWA taper thread. The outlet shall have a copper service thread compression joint.

All fittings shall conform to ANSI/AWWA Standard C800, latest edition. All brass components in contact with potable water must be made from no-lead brass. Brass alloys not listed in ANSI/AWWA C800 Paragraph 4.1.2 are not approved. Brass saddles shall be made from CDA/UNS C83600. All service fittings shall be certified as suitable for contact with drinking water by an ANSI accredited organization with ANSI/NSF Standard 61, Drinking Water Systems Components - Health Effects. All fittings shall be stamped or embossed with a mark or name indicating the product is manufactured from no-lead alloy.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

Place a double wrap of Teflon tape on the corporation stop threads prior to installation in the main. Install corporation stops in the upper quadrant of the pipe. Provide watertight connection with approved tapping machine and install under main pressure.

Disinfect each corporation stop by immersing it into a 50 parts per million chlorine solution.

Install copper service pipe between corporation stops and curb stops with no joints or unions. Bury depth shall be 8 feet. Provide 1-foot of slack in the pipe to allow for settlement and movement.

The contractor shall record the location and size of each corporation stop on a record drawing. Corporation locations are to be measured from the closest valve. Submit record drawings to Hudson Public Utilities upon completion of the water main portion of the project.

D Measurement

The department will measure Corporation (size) by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Corporation 1-Inch	EACH
SPV.0060.11	Corporation 1 1/2-Inch	EACH

Payment is full compensation for furnishing and installing all materials.

54. Connect to Existing Water Service, Item SPV.0060.12.

A Description

This special provision describes connecting to existing water services as shown on the plans and provided by these specifications.

B Materials

Copper service pipe shall be connected to existing copper, galvanized pipe, or HDPE pipe with a mechanical compression coupling with stainless steel stiffener insert providing a seal and full pipe restraint. The coupling shall be Mueller 110 Conductive Compression Connection Model H-15400, H-15403, or approved equal.

All fittings shall conform to ANSI/AWWA Standard C800, latest edition. All brass components in contact with potable water must be made from no-lead brass. Brass alloys not listed in ANSI/AWWA C800 Paragraph 4.1.2 are not approved. Brass saddles shall be made from CDA/UNS C83600. All service fittings shall be certified as suitable for contact with drinking water by an ANSI accredited organization with ANSI/NSF Standard 61, Drinking Water Systems Components - Health Effects. All fittings shall be stamped or embossed with a mark or name indicating the product is manufactured from no-lead alloy.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

Contractor shall maintain continuous water service to customers located adjacent to the project at all times. Temporary above ground systems may be approved by the Hudson Public Utilities prior to installation in the form of shop drawings. Temporary systems shall consist of new, chlorinated main piping and service connections to each water customer.

Following the conductivity test, pressure test and bacteria safe test, the contractor shall connect the new water services in as direct alignment as possible to the existing water services. Before the excavation is backfilled, all service connections shall be inspected for leaks and acceptability. The contractor shall be responsible to leave all service connections exposed and contact Hudson Public Utilities for inspection.

The contractor shall be responsible to locate the existing underground water services. The plans will supply the contractor with the approximate locations as available to the Owner. If the initial excavation for the location of existing building sewers and water services fails to uncover the existing services, the contractor, at his own expense, shall explore a distance of 6 feet in each direction, or a total of 12 feet, immediately in back of and parallel to the curb, or along the water main. If the existing building service or water service cannot be located within these limits and additional trenching is required, the contractor shall notify Hudson Public Utilities.

If the existing water service is found to be larger than the specified water service or if it contains lead, the contractor shall notify Hudson Public Utilities.

Contractor shall provide all necessary adaptors to connect to various materials and sizes.

D Measurement

The department will measure Connect to Exist Water Service by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Connect to Existing Water Service	EACH

Payment is full compensation for locating existing service, cutting existing service, removing any plugs or pipe, maintaining continuous service, connecting to existing service, furnishing and placing all materials, including any required fittings.

55. Sanitary Manhole 4-FT Diameter, Item SPV.0060.13.

A Description

This special provision describes furnishing and installing new sanitary sewer manhole and casting all as shown on the plans, according to standard spec 611 and as provided by these specifications.

B Materials

Precast concrete riser sections and appurtenant units (top cone and base slab, special sections, etc.) used in the construction of manholes will conform with the requirements of ASTM C478, subject to the following provisions.

Joints of riser sections are to be tongue and grove with internal and external joint seals. The internal joint seals shall be in conformance with ASTM C443. The external joint seals shall be Gator Wrap by Infi-shield, Inc. or approved equal. Top cone shall be eccentric. Inlet and outlet pipes will be joined to the structure with flexible, watertight rubber boot of the diameter, line, and grade indicated on the plan that allows differential settlement of the pipe and manhole to take place. Boots shall conform to ASTM C923. Connecting pipes to structures with grouting only is not acceptable.

The steps shall be Neenah Step No. R1981J, Badger F15 or approved equal.

Base sections of all structures will consist of monolithic base and bottom section of barrel. No joints will be allowed between base and bottom of barrel.

Sewer castings for sewer structures such as manhole frames and covers will conform to the requirements of ASTM A48 (gray iron castings). Lid-to-frame surfaces on round casting assemblies will be machine milled to provide true bearing around the entire circumference.

Manhole castings shall be Neenah R-1642 with non-rocking self-sealing lids and two concealed pick holes or approved equal. Adjusting rings shall be Cretex Pro-Ring solid HDPE or approved equal. Ladtech will not be accepted.

C Construction

Construct sanitary manholes according to plan details and elevations.

Submit shop drawings to Hudson Public Utilities conforming to Standard spec 105.2 prior to ordering the materials required for this item. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications. Include a drawing of each structure showing it conforms to the plan details and elevations.

Provide trench excavation, foundations, and backfill according to the requirements as described under the item for sanitary sewer. Place precast manhole base on compacted granular subgrade.

All trench excavation and backfilling, backfill material, compaction, and dewatering shall be considered incidental.

Connect to sanitary sewer pipes. Any required coupling adaptors required will be included.

Locate steps within 1 inch of vertical alignment and within 1 inch of required vertical spacing. Maximum allowable deviation from staked and plan location is within 0.30 feet horizontal and 0.03 feet vertical.

Provide concrete adjusting rings according to plan details to establish required casting elevations. Set lowest adjusting ring on a full mortar bed for leveling after dry stacking rings to check proper grade. Adjust new sanitary sewer manhole castings to final grade between paving lifts according to manhole adjustment item.

Remove all dirt and foreign material from the structure interiors.

D Measurement

The department will measure Sanitary Manholes 4-FT Diameter by the each, acceptably completed. The department will measure depth beyond 8 feet as Excess Manhole Depth (see SPV.0200.01).

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.13	Sanitary Manhole 4-FT Diameter	EACH

Payment is full compensation for furnishing and installing all materials.

56. Sanitary Manhole 5-FT Diameter, Item SPV.0060.14.

A Description

This special provision describes furnishing and installing new sanitary sewer manhole and casting all as shown on the plans, according to standard spec 611 and as provided by these specifications.

B Materials

Precast concrete riser sections and appurtenant units (top cone, reduction cover, base slab, special sections, etc.) used in the construction of manholes will conform to the requirements of ASTM C478, subject to the following provisions.

Joints of riser sections are to be tongue and grove with internal and external joint seals. The internal joint seals shall be in conformance with ASTM C443. The external joint seals shall be Gator Wrap by Infi-shield, Inc. or approved equal. Top cone shall be eccentric. Inlet and outlet pipes will be joined to the structure with flexible, watertight rubber boot of the diameter, line, and grade indicated on the plan that allows differential settlement of the pipe and manhole to take place. Boots shall conform to ASTM C923. Connecting pipes to structures with grouting only is not acceptable.

The steps shall be Neenah Step No. R1981J, Badger F15 or approved equal.

Base sections of all structures will consist of monolithic base and bottom section of barrel. No joints will be allowed between base and bottom of barrel.

Sewer castings for sewer structures such as manhole frames and covers will conform to the requirements of ASTM A48 (gray iron castings). Lid-to-frame surfaces on round casting assemblies will be machine milled to provide true bearing around the entire circumference.

Manhole castings shall be Neenah R-1642 with non-rocking self-sealing lids and two concealed pick holes or approved equal. Adjusting rings shall be Cretex Pro-Ring solid HDPE or approved equal. Ladtech will not be accepted.

C Construction

Construct sanitary manholes according to plan details and elevations.

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the materials required for this item. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications. Include a drawing of each structure showing it conforms to the plan details and elevations.

Provide trench excavation, foundations, and backfill according to the requirements as described under the item for sanitary sewer. Place precast manhole base on compacted granular subgrade.

All trench excavation and backfilling, backfill material, compaction, and dewatering shall be considered incidental.

Connect to sanitary sewer pipes. Any required coupling adaptors required will be included.

Locate steps within 1 inch of vertical alignment and within 1 inch of required vertical spacing. Maximum allowable deviation from staked and plan location is within 0.30 feet horizontal and 0.03 feet vertical.

Provide concrete adjusting rings according to plan details to establish required casting elevations. Set lowest adjusting ring on a full mortar bed for leveling after dry stacking rings to check proper grade. Adjust new sanitary sewer manhole castings to final grade between paving lifts according to manhole adjustment item.

Remove all dirt and foreign material from the structure interiors.

Place reduction cover to reduce diameter from 5-FT to 4-FT as soon as practical but not below any inside drops.

D Measurement

The department will measure Sanitary Manholes 5-FT Diameter by the each, acceptably completed. The department will measure depth beyond 8 feet as Excess Manhole Depth (see SPV.0200.01).

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Sanitary Manhole 5-FT Diameter	EACH

Payment is full compensation for furnishing and installing all materials.

57. Sanitary Service Wye 8x4-Inch, Item SPV.0060.15; Sanitary Service Wye 8x6-inch, Item SPV.0060.16; Sanitary Service Wye 10x4-inch, Item SPV.0060.17; Sanitary Service Wye 10x6-inch, Item SPV.0060.18; Sanitary Service Wye 24x6-inch, Item SPV.0060.19.

A Description

This special provision describes furnishing and installing new sanitary service wye for connection between sanitary sewer main and sewer service pipe all as shown on the plans and provided by these specifications.

B Materials

Service wyes shall conform to materials specifications for adjacent pipe components. Provide fittings and pipe of each material type from the same manufacturer.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

The location and size of sanitary sewer services as shown on the plans are approximate. Actual locations and size may vary from what is shown.

Installation of pipe shall conform to ASTM D2321. There shall be no mixing of different manufacturer's pipe or fittings on a project. Compact haunching area to specified density required by ASTM D2321.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Install gaskets and forms according to manufacturer's recommendations for use of lubricants, cements, and other special installation requirements.

Trench Excavation Requirements shall conform to specifications listed within Sanitary Sewer special provisions.

All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental. All work shall be done by open trench excavation.

Record the location, size, length, and number of bends on services on a record drawing. Measure service locations from the closest downstream manhole. Submit sanitary record drawings to Hudson Public Utilities upon completion of the sanitary portion of the project.

Reconnect services to the existing sewer and adjusting service without damage to the pipe. Proper watertight joints must be made.

D Measurement

The department will measure Sanitary Service Wye (size) by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	Sanitary Service Wye 8x4-Inch	EACH
SPV.0060.16	Sanitary Service Wye 8x6-Inch	EACH
SPV.0060.17	Sanitary Service Wye 10x4-Inch	EACH
SPV.0060.18	Sanitary Service Wye 10x6-Inch	EACH
SPV.0060.19	Sanitary Service Wye 24x6-Inch	EACH

Payment is full compensation for furnishing and installing all materials.

58. Connect to Existing Sanitary Sewer Service, Item SPV.0060.20.

A Description

This special provision describes connecting to existing sanitary services as shown on the plans and provided by these specifications.

B Materials

Furnish Fernco Strongback Series Coupling meeting the following standards ASTM D5926, SSTM C1173, and CSA B602, or approved equal.

C Construction

All building sewers shall be installed according to the Wisconsin Administrative Code and all local plumbing codes and regulations.

Install the sanitary sewer transition coupling according to Fernco standard specifications and product quality. Hudson Public Utilities will observe coupling installation.

Contractor shall verify the exact location, depth, size and material of the existing sanitary sewer service at connection points and shall notify Hudson Public Utilities immediately of any discrepancies.

The contractor shall be responsible to locate the existing underground sewer services. The plans will supply the contractor with the approximate locations as available to the Owner. If the initial excavation for the location of existing building sewers and water services fails to uncover the existing services, the contractor, at his own expense, shall explore a distance of 6 feet in each direction, or a total of 12 feet, immediately in back of and parallel to the curb, or along the sewer main. If the existing sewer lateral cannot be located within these limits and additional trenching is required, the contractor shall notify Hudson Public Utilities.

D Measurement

The department will measure Connect to Existing Sanitary Sewer Service by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.20	Connect to Existing Sanitary Sewer Service	EACH

Payment is full compensation for locating and cutting existing sanitary service, removing any plugs or pipe, connecting to existing sanitary service, furnishing and placing all materials, including any items required to complete the connection.

59. Connect to Existing Sanitary Manhole, Item SPV.0060.21.

A Description

This special provision describes connecting new sanitary sewers to existing sanitary manholes at the locations shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

Connect to existing sanitary manholes at existing booted inlets or outlets.

If existing booted inlets or outlets are at the wrong elevation, orientation or size, contractor shall core drill and boot a new inlet or outlet. Existing inlets shall be sealed. Inverts shall be chipped out and repoured.

Contractor shall verify the exact location, depth, size and material of the existing sanitary manhole at connection points and shall notify Hudson Public Utilities immediately of any discrepancies.

D Measurement

The department will measure Connect to Existing Sanitary Manhole by the each, 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.0060.21	Connect to Existing Sanitary Manhole	EACH

Payment is full compensation for furnishing and installing all materials.

60. Connect to Existing Sanitary Sewer, Item SPV.0060.22.

A Description

This special provision describes connecting new sanitary sewers to existing sanitary sewers at the locations shown on the plans and provided for by these specifications.

B Materials

Provide materials consistent with sanitary sewer items and all appropriate fittings and adaptors.

Furnish Fernco Strongback Series Coupling meeting the following standards: ASTM D5926, SSTM C1173, and CSA B602, or approved equal.

C Construction

When connecting a new sewer pipe to an existing sewer pipe, cut the ends of the existing sanitary sewer and connect to new sewer with pipe coupling adapters made specifically for such reconnections. Keep a record of all such connections, locations, and materials used.

Install the sanitary sewer transition coupling according to Fernco standard specifications and product quality. Hudson Public Utilities will observe coupling installation.

Contractor shall verify the exact location, depth, size and material of the existing sanitary sewer at connection points and shall notify Hudson Public Utilities immediately of any discrepancies.

D Measurement

The department will measure Connect to Existing Sanitary Sewer by the each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.22	Connect to Existing Sanitary Sewer	EACH

Payment is full compensation for furnishing and installing all materials.

61. Remove Existing Structure, Item SPV.0060.23.

A Description

This special provision describes removing existing sanitary structures the locations shown on the plans and provided for by these specifications.

B Materials

Provide backfill that is according to standard spec 209.

C Construction

Upon completion and acceptance of the new sewer system and verification that all flow been transferred to the new sewer main, contractor shall abandon the existing sewer system in place. Castings shall be removed and disposed of. Manhole cones and barrel sections shall be removed and disposed of. Bases may remain in place. Backfill to grade.

D Measurement

The department will measure Remove Existing Structure by the each, acceptably completed. Abandon Existing Sanitary System will be measured separately (see SPV.0105.02)

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.23	Remove Existing Structure	EACH

Payment is full compensation for furnishing and installing all materials.

62. Adjust Existing Casting, Item SPV.0060.24.

A Description

This special provision describes adjusting existing sanitary manhole, storm manhole or storm inlet casting frame and lid or grate to a new finished grade.

B Materials

Adjusting rings shall be Cretex Pro-Ring solid HDPE or approved equal. Ladtech adjusting rings will not be accepted.

C Construction

Contractor shall adjust existing casting to finish grade by adding adjusting rings, removing existing adjusting rings and/or removing existing riser sections.

D Measurement

The department will measure adjusting existing casting by the each, acceptably completed. New manholes will not be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Adjust Existing Casting	EACH

Payment is full compensation for furnishing and installing all materials.

63. Concrete Base Type Special, Item SPV.0060.25.

A Description

This special provision describes furnishing and installing a concrete light foundation as shown on the plans and as hereinafter provided.

B Materials

The concrete base shall be constructed with materials as shown in the plans.

C Construction

The base shall be constructed as shown in the plans. Bar steel reinforcement shall accommodate anchor bolt placement. Base shall maintain a 5' depth.

D Measurement

The department will measure Concrete Base Type Special by each base, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Concrete Base Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including anchor bolts, conduit, hardware and fittings.

64. Concrete Control Cabinet Base Type Special, Item SPV.0060.26.

A Description

This special provision describes furnishing and installing a concrete lighting control cabinet foundation as shown on the plans and as hereinafter provided.

B Materials

The concrete foundation shall be constructed with materials and methods as specified in the details in the plan.

C Construction

The Concrete Control Cabinet Base Type Special shall have an anchor bolt pattern, size, exposure and orientation that will accommodate the lighting control cabinet identified in the details in the plan.

D Measurement

The department will measure Concrete Control Cabinet Base Type Special by each base, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Concrete Control Cabinet Base Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including anchor bolts, conduit, ground rods, hardware and fittings.

65. Lighting Control Cabinet Type Special, Item SPV.0060.27.

A Description

This special provision describes furnishing and installing lighting control cabinets as shown on the plans and as hereinafter provided.

B Materials

The cabinet type shall be detailed in the plans. A rigid PVC conduit shall be stubbed out of the control cabinet base to accommodate the energy provider's service conduit and conductors.

C (Vacant)

D Measurement

The department will measure Lighting Control Cabinet Type Special by each cabinet, 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.0060.27	Lighting Control Cabinet Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including lighting control cabinets, meter socket, hardware and fittings; and for coordination with and/or any payments to energy provider.

66. Salvage Lighting Unit, Item SPV.0060.28.

A Description

This special provision describes salvaging lighting units from the project.

B (Vacant)

C Construction

Under the bid item Salvage Lighting Unit, disconnect and salvage the complete lighting unit (pole, luminaire, lamp, internal wiring and fusing, and transformer base) from the locations shown in the Plan and/or as designated by Hudson Public Utilities. The salvaged lighting unit shall become the property of the city, deliver to the Kratley Road yard or another location designated by Dick Dembroski at (715) 222-2411.

Pole wiring and fusing within the salvaged lighting units shall be removed and disposed of by the contractor. Disconnect from existing branch circuits prior to salvaging.

Salvaged items shall be stored and protected from damage by the contractor until ready for delivery or installation in new location. Any damage to the salvaged materials resulting from the hauling operation shall be repaired or replaced in-kind at the contractor's expense.

D Measurement

The department will measure Salvage Lighting Unit as each individual lighting 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.0060.28	Salvage Lighting Unit	EACH

Payment is full compensation for salvaging, storage and delivery of all existing lighting unit components including poles, luminaires, lamps, transformer bases, internal pole wiring and fusing, and all pole accessories, hardware and fittings.

67. Salvage Luminaire, Item SPV.0060.29.

A Description

This special provision describes salvaging luminaires from the project. The removal and, protection are included in this special provision.

B (Vacant)

C Construction

Under the bid item Salvage Luminaire, disconnect and salvage the complete luminaire (luminaire, lamp, and internal wiring and fusing) at locations indicated in the Plans. The salvaged luminaire shall become the property of the city, deliver to a location designated by Dick Dembroski at (715) 222-2411.

Pole wiring shall be disconnected from existing branch circuits prior to salvaging.

Salvaged items shall be stored and protected from damage by the contractor until they have been delivered to the city. Any damage to the salvaged materials resulting from the hauling operation shall be repaired or replaced in-kind at the contractor's expense.

D Measurement

The department will measure Salvage Luminaire as each individual luminaire 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.0060.29	Salvage Luminaire	EACH

Payment is full compensation for salvaging materials, including luminaire, lamp, internal pole wiring and fusing.

68. Lighting Unit Type Special, Item SPV.0060.30.

A Description

This special provision describes furnishing and installing lighting units complete with LED luminaires, poles, 20-amp festoon receptacles with metallic in-use covers, flag holder, and banner arms.

B Materials

Lighting Units to withstand the maximum loading applied by equipment as indicated in the detail drawings and Equipment Schedule located in the Plans. Apply design factors to these structures conforming to the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, together with a wind pressure based on a wind velocity of 90 mph plus gust factor. Lighting poles, arms, and luminaires shall be as shown in the Plan details and Equipment Schedule - no substitutions are allowed.

The luminaires shall be "UL" listed and equipped with an internal LED driver, surge protection, 3000 Kelvin LED lamps and Type III optics.

The poles shall be equipped with a 20-amp WR-rated GFCI receptacle with a weatherproof, metallic in-use cover, flag holder, and banner arms at the location indicated in the Plans.

All pole components and accessories, luminaire, and metallic in-use covers shall be factory finished black in color.

Furnish shop drawings as specified in standard spec 506.3.2. Ensure the drawings contain sufficient detail to allow satisfactory review and show the dimensions of all equipment shown in the plans.

Construct poles of materials having sufficient rigidity so that with all material installed and in place as the plans show, the centerline of the shaft appears vertical. If pole vibration is probable, it is the manufacturer’s responsibility to include vibration dampers where necessary.

Provide a reinforced hand hole located near the bottom of the pole as per manufacturer’s requirements. Provide a reinforced receptacle penetration.

All threaded equipment mounting hardware shall be stainless steel.

Provide a grounding lug complete with mounting hardware as required inside the pole. Provide access to the grounding lug from the hand hole. Mount the grounding lug by welding it directly opposite the hand hole on the inside wall of the pole.

Ensure that all castings are clean and smooth and that all details are well-defined and true to pattern.

Fuses shall be mounted in inline molded fuse connector/holders. The two-pole fuse holders for the 240-volt luminaires shall be a Bussman (Catalog. No. HEX-AW-DRLC-A) or approved equal. The single-pole fuse holders for the 120-volt receptacles shall be a Bussman (Catalog. No. HEB-AW-RLC-A) or approved equal. Fuses shall be of the breakaway type. Providing two single-pole fuse holders for the lighting circuits is not acceptable.

C Construction

Under the bid items Lighting Unit Type Special, furnish and install poles, luminaires, and all necessary miscellaneous accessories and hardware to complete the installation of the poles as shown in the Plan Details and Equipment Schedule.

Three 1/c No. 12 stranded, type XHHW-2, wires shall be used to connect the luminaires and receptacles to their respective branch conductors in the pole base. Each luminaire shall be protected by two 4-amp fuses. Each GFCI receptacle shall be protected by one 10-amp fuse.

The fuses shall be mounted with the casing located at the level of the handhole. Provide sufficient excess conductor length to allow withdrawal of the connected fuse holder from the hand hole. The grounding wires shall not be fused. Fuses and fuse holders shall be "UL" listed and shall be installed in such a manner that the fuse stays with the load side when holder is separated. In addition, the contractor shall form loops in the leads on each side of the fuse holders and so position the fuse holders so that they may be easily removed or inserted through the access hole. The grounding conductor shall not be fused.

Install poles at locations specified in the plan details.

All threaded stainless steel hardware and dissimilar metal, threaded hardware shall be coated with an approved zinc-based anti-seize compound (Loctite or Jet-Lube) by the contractor.

After completing pole erection, ensure the centerline of the shaft is vertical.

The contractor shall follow manufacturer’s instructions regarding luminaire and pole installation.

D Measurement

The department will measure Lighting Unit Type Special as each individual lighting 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.0060.30	Lighting Unit Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including poles, luminaires, receptacles, and all pole accessories, hardware and fittings necessary to install the lighting unit workable first class condition.

69. Luminaire Type Special, Item SPV.0060.31.

A Description

This special provision describes installing a new 120-watt LED Luminaire Type Special on existing light standard. The removal, protection and installation of new conductors are also included in this special provision.

B Materials

Luminaires shall be as shown in the Plan details and Equipment Schedule – no substitutions are allowed.

Luminaire Type Special shall be as shown in the Equipment Schedule. The luminaires shall be "UL" listed and equipped with an internal LED driver, surge protection, 3000 Kelvin LED lamps, and type III optics.

Furnish shop drawings as specified in standard spec 506.3.2. Ensure the drawings contain sufficient detail to allow satisfactory review and show the dimensions of all equipment shown in the plans.

All threaded equipment mounting hardware shall be stainless steel.

Fuses shall be mounted in inline molded fuse connector/holders. The two-pole fuse holders for the 240-volt luminaires shall be a Bussman (Catalog. No. HEX-AW-DRLC-A) or approved equal.

C Construction

Under the bid item Luminaire Type Special, install a new LED luminaire, all miscellaneous accessories and hardware required to complete the installation of the lighting unit at locations indicated in the Plans.

Three 1/c No. 12 stranded, type XHHW-2, wires shall be used to connect the luminaires to their respective branch conductors in the pole base. Each luminaire shall be protected by two 4-amp fuses.

The fuses shall be mounted with the casing located at the level of the handhole. Provide sufficient excess conductor length to allow withdrawal of the connected fuse holder from the hand hole. The grounding wires shall not be fused. Fuses and fuse holders shall be "UL" listed and shall be installed in such a manner that the fuse stays with the load side when holder is separated. In addition, the contractor shall form loops in the leads on each side of the fuse holders and so position the fuse holders so that they may be easily removed or inserted through the access hole. The grounding conductor shall not be fused.

Install luminaires at locations specified in the plan.

Splicing materials and circuit connections shall be as per the WisDOT Standard Detail Drawing 9E3-3 (Non-Freeway Lighting Unit Pole Wiring) and the WisDOT Qualified Electrical Products List.

All threaded stainless steel hardware and dissimilar metal, threaded hardware shall be coated with an approved zinc-based anti-seize compound (Loctite or Jet-Lube) by the contractor.

All components of the luminaire shall be installed in a workable first class condition and shall include all miscellaneous hardware required for a complete lighting unit reinstallation.

The contractor shall follow manufacturer’s instructions regarding luminaire installation.

D Measurement

The department will measure Luminaire Type Special as each individual luminaire 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.0060.31	Luminaire Type Special	EACH

Payment is full compensation for installing materials including, internal pole wiring, fusing, and all hardware and fittings necessary to fur furnish a new luminaire in workable first class condition and backfill and compaction.

70. Install Salvaged Lighting Unit, Item SPV.0060.32.

A Description

This special provision describes relocating lighting units salvaged from the project. The protection and reinstallation of existing conductors are also included in this special provision.

B (Vacant)

C Construction

Under the bid item Install Salvaged Lighting Unit, relocate the complete lighting unit (pole, luminaire, LED lamp, internal wiring, and fusing) salvaged from the project to the location shown in the Plan and/or as designated by City of Hudson. Furnish and install any miscellaneous accessories and hardware to complete the installation of the lighting units.

Pole wiring and fusing within the salvaged lighting units shall be maintained and reused during installation. If splicing or fusing materials are damaged during removal, provide as specified in the plan details.

Provide circuit connections, splicing materials as specified in the plan details and WisDOT standard detail drawings. If damaged during removal, provide conductors as specified in the plan details.

Ensure the lighting units are installed plumb and vertical.

All components of the lighting unit shall be installed in a workable first class condition and shall include all miscellaneous hardware required for a complete lighting unit reinstallation.

D Measurement

The department will measure Install Salvaged Lighting Unit as each individual lighting 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.0060.32	Install Salvaged Lighting Unit	EACH

Payment is full compensation for installing materials, including poles, luminaires, LED lamp, internal pole wiring and fusing, replacement of salvaged branch conductors if damaged, and all pole accessories, and hardware and fittings necessary to install the lighting unit workable first class condition.

71. Install Salvaged Lighting Unit with New Luminaire, Item SPV.0060.33.

A Description

This special provision describes installing lighting units salvaged from the project complete with a new 120-watt LED luminaire. The protection and installation of new conductors are also included in this special provision.

B Materials

Luminaire shall be as shown in the Plan details and Equipment Schedule - no substitutions are allowed.

Luminaire Type Special shall be as shown in the Equipment Schedule. The luminaires shall be "UL" listed and equipped with an internal LED driver, surge protection, 3000 Kelvin LED lamps, and type III optics.

Furnish shop drawings as specified in standard spec 506.3.2. Ensure the drawings contain sufficient detail to allow satisfactory review and show the dimensions of all equipment shown in the plans.

All threaded equipment mounting hardware shall be stainless steel.

Fuses shall be mounted in inline molded fuse connector/holders. The two-pole fuse holders for the 240-volt luminaires shall be a Bussman (Catalog. No. HEX-AW-DRLC-A) or approved equal.

C Construction

Under the bid item Install Salvaged Lighting Unit with New Luminaire, install the complete lighting standard (pole and arm) salvaged from the project to the location shown in the Plan and/or as designated by City of Hudson. Furnish and install a new LED luminaire, all miscellaneous accessories and hardware, to complete the installation of the lighting unit at locations indicated in the Plans.

Three 1/c No. 12 stranded, type XHHW-2, wires shall be used to connect the luminaires to their respective branch conductors in the pole base. Each luminaire shall be protected by two 4-amp fuses.

The fuses shall be mounted with the casing located at the level of the handhole. Provide sufficient excess conductor length to allow withdrawal of the connected fuse holder from the hand hole. The grounding wires shall not be fused. Fuses and fuse holders shall be "UL" listed and shall be installed in such a manner that the fuse stays with the load side when holder is separated. In addition, the contractor shall form loops in the leads on each side of the fuse holders and so position the fuse holders so that they may be easily removed or inserted through the access hole. The grounding conductor shall not be fused.

Install salvaged lighting unit with new luminaires at locations specified in the plan.

Splicing materials and circuit connections shall be as per the WisDOT Standard Detail Drawing 9E3-3 (Non-Freeway Lighting Unit Pole Wiring) and the WisDOT Qualified Electrical Products List.

All threaded stainless steel hardware and dissimilar metal, threaded hardware shall be coated with an approved zinc-based anti-seize compound (Loctite or Jet-Lube) by the contractor.

All components shall be installed in a workable first class condition and shall include all miscellaneous hardware required for a complete lighting unit reinstallation.

The contractor shall follow manufacturer's instructions regarding luminaire installation.

Salvaged items shall be stored and protected from damage by the contractor until ready for reinstallation. Any damage to the salvaged materials resulting from the hauling operation shall be repaired or replaced in-kind at the contractor's expense.

After completing pole erection using normal pole shaft raking techniques, ensure the centerline of the shaft appears vertical.

D Measurement

The department will measure Install Salvaged Lighting Unit with New Luminaire as each individual lighting 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.0060.33	Install Salvaged Lighting Unit with New Luminaire	EACH

Payment is full compensation for installing materials, including pole, arm, internal pole wiring, fusing, and all pole accessories, hardware and fittings necessary to install the salvaged lighting unit in workable first class condition, and for furnishing a new LED luminaire.

72. Adjust Existing Valve Box, Item SPV.0060.34.

A Description

This special provision describes adjusting existing valve boxes (including gate valve boxes and curb stop boxes) to a new finished grade.

B (Vacant)

C Construction

Contractor shall adjust existing valve box up or down to the new finish grade.

D Measurement

The department will measure adjusting valve box by the each, acceptably completed. New valve boxes will not be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.34	Adjust Existing Valve Box	EACH

Payment is full compensation for adjusting, furnishing and installing all materials.

73. Connecting New Storm Structure to Existing Storm Sewer Pipe, Item SPV.0060.35.

A Description

This special provision describes connecting a new storm manhole or catch basin to an existing storm sewer pipe as shown on the plans and as hereinafter provided.

B Materials

For annular space mortar, use material conforming to the requirements of standard spec 519.2.3.

C Construction

Excavate as required both horizontally and vertically to locate connection point and determine the material and diameter of the existing pipe. Comply with the requirements of standard spec 608.3.

Do one of the following for each connection to be made:

- Prior to ordering new structure, pre-excavate to locate existing pipe and determine diameter and elevation of entrance and exit openings needed in new structure. Backfill excavation until installation of new structure.
- Order new structure without entrance and exit openings for existing pipe. After locating existing pipe and determining diameter and elevation of pipe, make holes in structure large enough to make pipe connections.

Entrance holes shall not be precast into new structure without first having located existing pipe.

Make connections between existing pipe and new manhole or catch basin as described in standard spec 611.3.2 using annular space mortar to seal the connection.

D Measurement

The department will measure Connecting New Storm Structure to Existing Storm Sewer Pipe 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.0060.35	Connecting New Storm Structure to Existing Storm Sewer Pipe	EACH

Payment is full compensation for furnishing and installing mortar materials for entrance and exit openings, for locating existing pipe, for making required openings in new structures, and for excavating, backfilling, disposing of surplus material, and restoring the work site; except the department will pay for the structures separately.

74. Connecting New Storm Sewer Pipe to Existing Storm Sewer Pipe, Item SPV.0060.36.

A Description

This special provision describes connecting new storm sewer pipe to existing storm sewer pipe as shown on the plans and as hereinafter provided.

B Materials

Mortar: Material complying with standard spec 519.2.3.

Standard Coupling or Joint: Pipe manufacturer's standard coupling or joint materials capable of producing a soil-tight joint.

Gravity Pipe Coupling: Premanufactured rubber or elastomeric sleeve and stainless band assembly fabricated to mate with the outer diameters of the pipes to be joined and complying with ASTM C1173.

Concrete for Pipe Collar: Material complying with standard spec 520.2.4.

C Construction

Excavate as required both horizontally and vertically to locate connection point and determine the material and diameter of the existing pipe. Comply with the requirements of standard spec 608.3.

Connect new pipe to existing pipe using a mortar joint, standard coupling or joint, or gravity pipe coupling. Use concrete collar for connection to existing pipe where the engineer agrees a mortar joint, standard coupling or joint, or gravity pipe coupling cannot be used.

D Measurement

The department will measure Connecting New Storm Sewer Pipe to Existing Storm Sewer Pipe 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.0060.36	Connecting New Storm Sewer Pipe to Existing Storm Sewer Pipe	EACH

Payment is full compensation for furnishing and installing materials including mortar, joint materials, couplings, and/or concrete, for locating the existing pipe, and for excavating, backfilling, disposing of surplus material, and restoring the work site; except the department will pay for the pipe separately.

75. Inlets 6-FT Diamenter, SPV.0060.37.

A Description

This special provision describes furnishing and installing Inlets 6-FT Diameter 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 diameter shall be 6 feet.

Minimum wall thickness shall be 7 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 6-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.0060.37	Inlets 6-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.

76. Adjusting Inlet Covers and Replacing Rings, Item SPV.0060.38.

A Description

This special provision describes replacing all existing rings at each inlet location and adjusting the inlet covers to the finished elevation as the plans show and conforming to standard spec 611.

B Materials

Furnish materials conforming to standard spec 611.2.

C Construction

C.1 General

Supplement standard spec 611.3.1 as follows:

Remove and properly dispose of all existing rings at each inlet location. Install new rings per engineer-approved methods.

D Measurement

The department will measure Adjusting Inlet Covers & Replacing Rings 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.0060.38	Adjusting Inlet Covers and Replacing Rings	EACH

Payment is in full compensation for providing required materials, including masonry and fittings, and replacing rings; and for removing, reinstalling, and adjusting the covers. The contractor shall replace covers rendered unusable by the contractor's operations, at no expense to the department.

77. Water Main Fittings, Item SPV.0085.01.

A Description

This special provision describes furnishing and installing water main fittings, all as shown on the plans and as provided by these specifications.

B Materials

Fittings - All water main fittings shall be cast iron or ductile iron conforming to the requirements of AWWA C151 with conductive devices as specified for ductile iron pipe. All water main fittings shall have a fusion bonded epoxy coating according to AWWA C116.

Mechanical joints shall haver Megalug restraints.

Sleeve shall be a minimum of 12-Inch long.

Bolts and nuts shall be Cor-Blue T-Head or approved equal.

Provide concrete for blocking in conformance with Standard spec 501.

C Construction

Comply with construction requirements for adjacent water main items.

Thrust Restraint - Install thrust restraints at all bends, tees and plugs and all joints within 50 feet of all bends, tees and plugs.

Concrete Blocking - In addition to thrust restraints, place concrete blocking between the fitting and undisturbed trench wall. Minimum thickness: 12 inches. Minimum area in square feet shall be according to the following:

Pipe	Tee or Plug	1/4 Bend	1/32 and 1/8 Bend	1/16 Bend
6-inch	2.9	3.1	1.6	0.8
8-inch	3.7	5.3	2.9	1.4
10-inch	5.7	8.1	4.4	2.2
12-inch	8.1	13.4	6.6	3.2
16-inch	15.1	21.4	11.6	5.9
20-inch	23.2	30.2	18.1	9.3
24-inch	33.6	48.5	26.1	13.3

Size blocking based on the larger main. Verify that bolts are accessible after concrete is poured.

D Measurement

The department will measure Water Main Fittings by the pound, acceptably installed. No measurement will be made of concrete blocking, glands, gaskets, rods, bolts, nuts and other accessories.

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	Water Main Fittings	LB

Payment is full compensation for furnishing and installing all materials.

78. Water Main Ductile Iron 4-Inch, Item SPV.0090.01; Water Main Ductile Iron 6-Inch, Item SPV.0090.02; Water Main Ductile Iron 8-Inch, Item SPV.0090.03; Water Main Ductile Iron 12-Inch, Item SPV.0090.04;

A Description

This special provision describes excavating required trenches, furnishing and installing watermains and backfilling the trenches.

B Materials

General - Water main shall be cement-lined ductile iron pipe Class 52 per AWWA C151. All pipe shall be new, unused material. Ductile iron pipe shall consist of pipe centrifugally cast in metal or sand-lined molds having bell and spigot ends designed for a rubber gasket push-on joint. Pipe wall shall be homogeneous from inside to outside and shall be completely free of laminations, blisters, or other imperfections.

Water main pipe shall have a cement mortar lining and internal and external bituminous coats according to Section 51.8 if AWWA C-151. The bituminous coating shall be applied over the cement lining on the inside of the pipe and a bituminous seal coat shall be applied on the exterior of all pipe fittings. The coating shall be smooth, tough and tenacious and impervious to water without any tendency to scale off and shall not be brittle.

Each pipe shall have the weight, class, or nominal thickness and casting period conspicuously painted on it. The manufacturer's mark, the year in which the pipe was produced, and the letters "D.I." or the word "DUCTILE" shall be cast or stamped on the pipe. All cast marks and required markings shall be on or near the bell

Pipe Joints - Joints shall be push-on. Provide joint conductivity utilizing copper jumpers; minimum 1/16-inch by 3/4-inch wide flat copper strip, or annealed round copper wire conforming to ASTM B152, Type DHP. Nuts and bolts to be silicon bronze. Exothermic welding shall utilize Cadweld system or approved equal. Anti-corrosion protective coating shall be Gunk T1617R Tite-Seal Rubberized Auto Body Undercoating or approved equal. Metal wedges or lead-tipped gaskets will not be permitted.

Pipe joints within 50 feet of bends, tees and plugs shall be restrained. Restraints shall be Mega Lug Series 1700 Harness, Field Lok 350 gasket, or approved equal. Joints restrained with Field Lok gaskets shall be marked with plastic tape that indicates “Restrained Joint” or painted blaze orange and initialed “RJ”.

Gaskets - Unless otherwise specified, all rubber gaskets shall conform to AWWA C111 or ANSI 21.11 for Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.

C Construction

Submit shop drawings to Hudson Public Utilities only conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

Manipulation of existing valves required in order to construct work shall be performed by Hudson Public Utilities only. Contact the Utility at least 48 hours in advance to coordinate and schedule any required valve manipulation.

Where new water main conflicts with existing water main, removal of existing water main shall be considered incidental to the work.

Inspect water main for defects before placing in trench. Lay pipe to the required alignment and grade. Unless otherwise required, pipe shall be laid with the bell ends facing the direction of laying. Locate hydrants, valves, and fittings according to plans. Remove all foreign matter from the inside of the pipe before installation. If, in the opinion of Hudson Public Utilities only, the water pipes are not sufficiently protected or clean, they shall be swabbed and cleaned as directed by Hudson Public Utilities only.

Provide joint connectivity across all joints and fittings and to appurtenances. Grind surfaces to remove coating and oxide prior to exothermic welding. Refinished ground areas after exothermic welding with anti-corrosion protective coating.

Provide thrust restraint on all joints within 50 feet of all bends, tees and plugs. Joints restrained with Field Lok gaskets shall be marked with plastic tape that indicates “Restrained Joint” or painted blaze orange and initialed “RJ”.

After the trench has been excavated, a layer of bedding material shall be spread over the bottom of the trench at a minimum depth of 4 inches. The pipe can be installed and jointed with a uniform support from the bedded material. The bedding material shall be brought up to a level even with the spring line of the pipe and carefully compacted as directed by the Hudson Public Utilities. All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental.

Provide a minimum of 8 feet of cover over the pipe. Greater depths of cover over pipe may be necessary to clear other utilities or provide for future finished grade above pipe. Laying pipe at greater depths than 8 feet shall be considered incidental. Cover material shall be placed after the pipe has been properly bedded and jointed. Placement of cover material shall be by hand or equally careful means, so as to avoid jarring or pushing the pipe and to assure that no large stones or foreign materials are allowed to come into contact with the pipe. Cover material shall extend approximately one foot above the top of the pipe, and shall be carefully and uniformly compacted to 90 percent of the modified proctor density. Following the proper placement of the cover material the trench can be backfilled.

Construct the pipe under the conflicting sewer, where water pipe is in direct conflict with sewers. Provide a minimum 18 inch space when the water main crosses beneath the sewer. Provide a minimum 6 inch space when the water main crosses above the sewer.

Water main paralleling sanitary sewers shall be laid at least 8 feet horizontally from a sanitary sewer.

Contractor shall install temporary flushing point with 1 1/2-inch corporation, curb stop and copper to facilitate flushing and testing. Temporary flushing points shall be abandoned by turning off the corporation and removing and disposing of the curb stop and copper after testing has been completed.

No pipe shall be laid in water or on unsuitable foundation bedding except by permission of Hudson Public Utilities only. No rocks shall be allowed within two feet of the pipe. If existing soils are not suitable, granular backfill shall be used with one foot of the pipe.

Perform the following test upon completion of the water main construction and prior to any external service connections. Prior to performing any testing, the newly installed main shall be thoroughly flushed to remove all debris and foreign materials. Flushing shall be done by the contractor upon notification of the Hudson Public Utilities and shall be scheduled during periods of low demand. Flushing will take place as soon as possible following the installation of water main. Flushing shall be metered to record water loss

Perform a pressure and leakage test on new water main according to the following test procedure according to AWWA C600:

Test Pressure: 150 psi. Test Duration: 2 hours.

Test with valves open to include all stubs and DIP service laterals. When hydrants are in the test section, the test shall be made against closed hydrant valves. Contractor is responsible for removal of air from dead ends by installing taps or corporation stops at locations as approved by Hudson Public Utilities. Upon completion of testing, corporation stops shall be removed and plugged or left in place at the direction of Hudson Public Utilities.

Gage requirements include: 4-1/2-inch dial size, 0 to 200 psi range, 2 psi gradation, 1/2 percent accuracy.

Do not allow pressure to vary more than 3 psi during the test. Do not allow pressure to vary more than 2 psi during the last hour of the test. Maximum length of main to be covered in any one test shall be 1400 feet.

Allowable Leakage is determined by the following formula:

Allowable Leakage (GPH) = S x D x P / 148,000

in which S = Length of pipe to be tested (Feet)

D = Nominal diameter of pipe (Inches)

P = Square root of the test pressure

at 150 PSI, P = 12.25 Pressure Test

Should any test section fail to meet the leakage test, the contractor shall immediately make the necessary repairs to the water main at his own expense. All visible leaks are to be repaired, regardless of the amount of leakage.

Should the pressure test fail when pressure testing against an existing valve the contractor may replace the valve under the following conditions:

- The contractor has investigated all possible sources of leaking. Hudson Public Utilities shall then make the determination that the existing valve should be replaced.
- After the replacement of the valve, a pressure/leak test shall be completed and listed below will be the type of compensation that the contractor shall receive:
- If the pressure/leak test fails after a new valve has been installed, the contractor shall further investigate the possible source of the leak and make any necessary corrections. No compensation shall be made to the contractor for removal and replacement of the existing valve and box if the existing valve was not the cause of the leak.
- If the pressure leak test passes after the replacement of the existing valve, the contractor shall be compensated for the removal and replacement of the valve and box on a per each basis. Remove and Replace Valve and Box shall be measured and paid for per each for the size installed, and shall be full compensation for excavation, backfilling, furnishing, installing, labor and incidentals necessary to complete the work.

The contractor will not be compensated for investigating for leakage at joints, fittings, or services even if the existing valve is faulty and is replaced.

Perform Electrical Conductivity Test:

Perform a conductivity test within one week after completion of pressure testing of the main on all iron pipe water mains to establish that electrical thawing may be carried out in the future.

Perform test after back-filling is completed and while line is at normal operating pressure.
Test Current: 350 amperes DC. Test Duration: 5 minutes.

Test between hydrants in segments of convenient length.

Furnish DC current source, cable and all required equipment of adequate capacity to accomplish the test. Clamp cables to hydrant flange bolts. Conduct test with hydrant in the open position and caps on. Measure current continuously throughout the test with a DC ammeter hooked on a cable lead. Start test at minimum current level and increase to test level. Drain hydrant and tighten caps after test.

Failure of a segment shall be determined by current measurements that are insufficient, intermittent or unsteady. If failure occurs, isolate and correct defective contact points as indicated by failed tests. Retest failed segments after correction.

Bacteriological Tests and Disinfection of New Ductile Iron Pipe Water Mains and Water Services:

All water distribution system or extension to existing system or any valved section of such extension, or replacement, shall be disinfected prior to placing same in service. Disinfection of water main shall be done according to AWWA Standard C651.

Disinfection shall be by continuous feed method according to AWWA C651. The point of application of the chlorine shall be at the beginning of the new main near the supply source. The contractor shall furnish a corporation stop at a location approved by Hudson Public Utilities.

As part of the process, all new hydrants shall be thoroughly disinfected. Hydrants shall be fully opened and filled to the nozzle outlets with disinfectant. Upon completion of the continuous feed process, nozzle caps shall be replaced, and the hydrant will remain full for 24 hours until sampling.

The initial dose of chlorine shall shall provide 50 mg/l free chlorine. The residual dosage after the hold period shall be at least 10 mg/l free chlorine.

After an adequate period of time for the disinfection process, the contractor shall flush the main of the disinfection chemicals. The contractor shall be responsible for all costs associated with flushing activities, including labor, supply of hose for disposal means, etc. Upon proper notification of Hudson Public Utilities by the contractor, Hudson Public Utilities will sample the water for bacteria. Samples shall be collected from each section of new main as well as each branch. In cases of mains exceeding 1,200-feet in length, samples may be required to be collected along the length of line as well as at the end.

The water main shall be sampled daily until two consecutive samples pass the standard bacteriological test, at which time the contractor shall be notified, and the main may be put in service. Hudson Public Utilities will take all necessary samples of the water and provide any sampling supplies necessary to take these samples. The cost for sampling shall be submitted to the contractor, and the contractor shall reimburse Hudson Public Utilities for such costs. The reimbursement of this cost shall be considered incidental to the unit price bid for water main. Re-chlorinate if any sample tests positive for coliform.

All water main pipe must pass a locating test, in the presence of Hudson Public Utilities, prior to acceptance of respective pipe installation. All equipment necessary to perform the test shall be provided by the contractor.

Hudson Public Utilities will employ an independent testing laboratory to perform compaction testing to include 1 density test per 300 feet of trench and varying depths and 1 density test per 4 services installed. Contractor shall correct any defects. Cost of any retests shall be deducted from the Conractor’s payment.

D Measurement

The department will measure Watermain Ductile Iron (size) 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.0090.01	Water Main Ductile Iron 4-Inch	LF
SPV.0090.02	Water Main Ductile Iron 6-Inch	LF
SPV.0090.03	Water Main Ductile Iron 8-Inch	LF
SPV.0090.04	Water Main Ductile Iron 12-Inch	LF

Payment is full compensation for all excavating, backfilling, dewatering, sheeting, shoring, removing existing watermain, for furnishing and installing watermain, pipe joints, temporary flushing points, lowering, and all test procedures.

79. Water Service Copper 1-Inch, Item SPV.0090.05; Water Service Copper 1 1/2-Inch, Item SPV.0090.06.

A Description

This special provision describes furnishing and installing new water service pipe for connection between water main the property line as shown on the plans and provided by these specifications.

B Materials

Water Service shall be Type “K” of annealed seamless copper tubing according to ASTM B88 and AWWA C800.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

All building sewers and water services shall be installed according to the Wisconsin Administrative Code and all local plumbing codes and regulations. All water main taps for corporation stops shall be made under pressure. No water service shall be connected to a potable outlet until the water main has passed the bacteria-safe test.

Building services may be placed in a common trench if installed concurrently. If not installed concurrently, a minimum 8-foot horizontal separation must be maintained between the water service and building sewers. A minimum of 12 inches vertical and 18 inches horizontal shall separate the water service from a sanitary service.

Install copper water service laterals without any coupling or joint from corporation stop to curb stop.

Directly tap the corporation stop into ductile iron main.

Provide 1-foot slack in the pipe to allow for settlement and movement.

All service trenches shall be backfilled with an approved backfill material and shall be compacted in 2-foot lifts to 95 percent of the modified proctor density.

All new water service curb stops shall be located as shown on the Plans and Details or as directed by Hudson Public Utilities.

All service pipe must pass a locating test, in the presence of Hudson Public Utilities, prior to acceptance of respective pipe installation. All equipment necessary to perform the test shall be provided by the contractor.

Hudson Public Utilities will employ an independent testing laboratory to perform compaction testing to include 1 density test per 300 feet of trench and varying depths and 1 density test per 4 services installed. Contractor shall correct any defects. Cost of any retests shall be deducted from the contractor's payment.

D Measurement

The department will measure Water Service Copper (size) 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.0090.05	Water Service Copper 1-Inch	LF
SPV.0090.06	Water Service Copper 1 1/2-Inch	LF

Payment is full compensation for all excavating, backfilling, dewatering, sheeting, shoring, for furnishing and installing service pipe, bedding material, initial backfill, and all test procedures.

80. Sanitary Sewer PVC 8-Inch, Item SPV.0090.07; Sanitary Sewer PVC 10-Inch, Item SPV.0090.08; Sanitary Sewer PVC 15-Inch, Item SPV.0090.09; Sanitary Sewer PVC 18-Inch, Item SPV.0090.10; Sanitary Sewer PVC 24-Inch, Item SPV.0090.11.

A Description

This special provision describes furnishing and installing new PVC sanitary sewer main piping all as shown on the plans and provided by these specifications.

B Materials

Pipes shall conform to the following, with all related materials provided from the same manufacturer:

Description	Size	Class or Type	Specification	Joint
PVC Sewer Pipe	4" - 15"	SDR 35	ASTM D3034	Rubber Gasket
PVC Sewer Pipe	18" - 48"	PS 115	ASTM F679	Rubber Gasket

Each length of pipe shall bear the name or trademark of the manufacturer. Each length shall likewise be marked to designate the class, wall thickness designation or strength of the pipe. The markings shall be made on the exterior or interior of the pipe barrel and shall be plainly visible.

Joints shall conform with ASTM D3212. Push-on type only with bell-end grooved to receive a gasket in conformance with ASTM F477. There shall be no mixing of different manufacturer's pipe or fittings on a project.

Locating (tracer) wire shall be No. 12 solid copper with "HMWPE" 30 mil insulation. Insulation for sanitary sewer applications shall be green. To minimize splices, wire shall be supplied on spools of not less than 500 feet.

C Construction

Submit shop drawings to the Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

During the unloading process, all pipe and accessories shall be inspected by the contractor. Notify Hudson Public Utilities of all material found defective. Hudson Public Utilities will inspect the material and have the right to reject any materials found unsatisfactory. Promptly remove all rejected material from the job site.

Removal of existing facilities, trench excavation and backfill and restoration shall be according to the provisions of these specifications.

Lay and maintain all pipe to the lines and grades shown on the plans. Set pipe grades with a pipe laser.

Sanitary sewers laid along STH 35 from Front Street toward Coulee Road shall utilize a double trench box to reduce trench width and utility conflicts with existing utilities along the east side of STH 35.

Provide pipe of the material and size shown on the plans for the location.

Water mains crossing beneath sanitary or storm sewer mains or services shall be laid to provide a minimum separation of 18 inches between the top of the water main and the bottom of the sewer. When water mains pass above a sewer a minimum separation of 6 inches shall be provided.

Separate sewers and manholes at least 8 feet horizontally from any water main.

When connecting to existing sewers, give Hudson Public Utilities 48-hour notice prior to taking a sewer out of service. The contractor shall obtain approval from Hudson Public Utilities prior to taking the sewer out of service. Disruption of service shall be during the time of day when the least inconvenience will be caused to the owner and kept to a minimum amount of time.

Work near wastewater treatment plant will require bypass pumping. Contractor shall design bypass pumping system. Contractor shall operate primary and backup pumps. Contractor shall provide dedicated operator on-site at all times while bypass pumping system is in operation. Contractor shall give Hudson Public Utilities 48-hour notice prior to commencing bypass pumping. Contractor shall obtain approval from Hudson Public Utilities prior to commencing bypass pumping.

Work near wastewater treatment plant will require dewatering. Contractor shall design, permit and operate dewatering system.

No pipe shall be laid in water or when the trench conditions are unsuitable for such work.

Removal and disposal of existing sanitary sewer, regardless of size or pipe material, shall be considered incidental to the work. Clay pipe may be crushed in place if remaining pieces are smaller than 3 inches. Keep clay pipe pieces away from new pipe.

Installation of pipe shall conform to ASTM D2321.

Remove all foreign matter from the inside of the pipe before lowered into its position in the trench. Keep pipe clean by approved means during and after laying. Provide temporary plug in the end of incomplete piping at the end of day and when work stops.

Pipe laying shall proceed from the lowest end of the grade and bell ends of the pipe shall face upgrade. Provide watertight plugs at end of stubs installed for future connections. Maximum deviation from staked or plan grade shall be no more than 0.30 feet horizontal and grade slope variation of 0.02 percent.

Pipe shall be laid on solid subgrade material shaped to the contour of the pipe. All pipes shall be laid with ends abutting and true to line and grade. Pipe, which has in any way been disturbed or does not conform to said line and grade before final acceptance, shall be removed and relaid by the contractor at the contractor's expense.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Place plug in end of incomplete piping at end of day and when Work stops. Provide watertight plugs at future connection plugs. When water is present in trench, seals are to remain in-place while trench is pumped completely dry.

Installation shall conform to ASTM D2321. Compact haunching area to specified density required by ASTM D2321.

Install gaskets and forms according to manufacturer's recommendations for use of lubricants, cements, and other special installation requirements.

Maintain sanitary sewer flow at all times during construction. Maintaining sanitary sewer flow shall be considered incidental.

Trench Excavation Requirements:

- Alignment and Grade:
  - Excavate trench to alignment and grade as staked.
  - Excavate no more than 100 feet in advance of pipe laying operation.
- Trench Width at Pipe Zone:
  - Center trench on pipe alignment.
  - Minimum Width: Pipe O.D. plus 12 inches.
  - Maximum Width: Pipe O.D. plus 24 inches (except rock excavation).
- Excavated Materials:
  - Use stable material for backfill.
  - Waste unstable material as directed.
  - Do not place materials on sidewalk, driveways, or drainageways.
- Drainage:
  - Provide drainage excavations when required.
  - Drain trench water into natural channels or storm sewer.
  - Do not drain trench water into sanitary sewer.
- Rock Excavation:
  - Blasting shall conform to all local and state ordinances.
  - Submit blasting schedule for approval.
  - Minimum trench width: 36 inches.
  - Provide minimum 6-inch vertical clearance between pipe and rock trench bottom.
  - Provide minimum 12-inch horizontal clearance between pipe and rock trench walls.
  - Provide pipe foundation material for pipe in rock trenches.

Pipe Foundations:

Hudson Public Utilities to determine stability of the trench bottom.

Stable trench bottom:

Shape trench bottom to conform to bottom half of pipe.

Excavate bell holes to permit proper jointing.

Unstable trench bottom:

Excavate below pipe grade to specified depth.

Refill with specified foundation material according to plan detail and the special provisions for Backfill Coarse Aggregate No. 2.

Contractor shall receive compensation for Backfill Coarse Aggregate only for bedding pipe. Aggregate volume will be calculated as the pipe diameter plus 2 feet multiplied by the pipe length and a maximum depth of 12 inches. Aggregate used to stabilize trench walls, install dewatering equipment, or provide stable foundation outside of the pipe zone shall not be measured. Excess Aggregate used because of insufficient dewatering shall not be measured.

Trench Backfill Requirements:

Pipe Zone:

Use native or specified foundation material free of rocks and other unsuitable debris.

Deposit material uniformly on both sides of pipe throughout entire trench width.

Place material in 6-inch lifts and mechanically compact.

Above Pipe Zone:

Use native materials free of debris and rock, concrete or clay lumps with a volume greater than 1/3 cubic foot.

Place in uniform lifts no more than 1 foot thick.

Mechanically compact each lift of the upper 3 feet of the trench to a Standard Proctor.

Density of 100 percent.

Mechanically compact each lift under the upper 3 feet of the trench to a Standard

Proctor Density of 95 percent.

Do not backfill unless approved compaction equipment is operating.

Replacement Backfill:

Hudson Public Utilities to determine suitability of native material for backfill.

Use replacement backfill in lieu of native materials as directed.

Place according to the above trench backfill requirements for “Above Pipe Zone”.

Excess or Deficiency of Backfill Material:

Dispose of excess backfill material as directed after all trenches are backfilled.

Provide replacement backfill as required to establish required surface elevation.

Field Quality Control:

Density tests on backfill materials will be as directed by the Hudson Public Utilities.

Contractor to recompact all areas represented by failed density tests.

Costs for initial test and first retest will be considered incidental.

Costs of subsequent retests to be deducted from contractor’s payment.

All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental. All work shall be done by open trench excavation.

All dewatering of trenches will be incidental to the construction.

The locating wire shall be laid directly over the utility. The contractor shall be responsible for the installation of a locating wire with electrical continuity throughout the entire length.

Tracer wire shall remain continuous to the greatest extent possible. Splices in the copper tracer wire should be made with solder, split bolt type connectors or other type approved by Hudson Public Utilities. Splices in the stainless steel tracer wire should be made with split bolt type connectors or other type approved by Hudson Public Utilities. Wire nuts or clip type connectors shall not be used. All connections shall be protected to make them watertight. Waterproofing material shall be 3M 2200 or equal.

Tracer wire connections from sewer mains into manholes shall be at the top of the manhole in a manner that will not allow inflow.

Deflection Test:

Deflection tests shall be performed on all sanitary sewer pipe. The test shall be conducted after the final backfill has been in place at least 30 days.

The deflection test is to be run using a mandrel, it shall have a diameter equal to 95 percent of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. The line will be considered acceptable if mandrel can progress through line without binding. Provide corrective measures for lines not meeting these requirements.

Infiltration Test:

Manholes shall be water tight with no leakage permitted. Passing air test will be considered acceptable for compliance with infiltration allowances, unless leakage is observed, or pipe diameter is greater than 27 inches.

For infiltration test, place 90 degree V-notch weirs in locations directed by Hudson Public Utilities to measure leakage in sewer lines. Allowable leakage rate shall be 200 gallons/day/inch diameter/mile of sewer between any adjacent manholes. Provide corrective measures for any line that exceeds the allowable leakage rate.

The contractor shall receive no additional compensation for tests or corrective work necessary to reduce leakage below the amount allowed by the specifications or correction of excess deflections.

Record the location, size, length, and number of bends on services on a record drawing. Measure service locations from the closest downstream manhole. Submit sanitary record drawings to Hudson Public Utilities upon completion of the sanitary portion of the project.

All sanitary sewer lines shall be televised with all said televising costs included in the related sanitary sewer item. When sewer line flows are above the minimum requirements (generally not more than 1/4 of the pipe diameter) or inspection of the complete periphery of the pipe is necessary to effectively conduct the inspection and sealing operations, one or more of the following methods of flow control shall be used at no extra cost to the city:

1. Plugging or Blocking: A sewer line plug shall be inserted into the line at a manhole upstream from the section to be inspected, tested and/or sealed. The plug shall be so designed that all or any portion of the sewage flows can be released. During the inspection portion of the operation, flows shall be shut off or substantially reduced in order to properly inspect the pipe at the invert. After the inspection is complete, flows shall be restored to normal or not more than 1/3 of the pipe diameter during the joint testing and joint sealing operation.
2. Pumping and Bypassing: Where pumping is required, in the opinion of Hudson Public Utilities, to assure completion of the inspection and sealing work, the contractor will be required to furnish pumping equipment, conduits, etc. All costs for flow control, temporary pumping, etc., shall be inclusive to testing and shall be included in the unit price bid for the related sanitary sewer item. No bypassed wastewaters will be allowed to be discharged to surface drainage facilities.

Liability: Contractor shall be liable for damages to private or public property which may result from sewer flow control operations.

The television camera used for the inspection shall be one specifically designed and constructed for such inspection. Lighting for the camera shall be suitable to allow a clear picture for the entire periphery of the pipe. The camera shall have a minimum resolution of 600 lines and shall provide a color picture. Picture quality and definition shall be to the complete satisfaction of Hudson Public Utilities and if unsatisfactory, equipment shall be removed, and no payment made for unsatisfactory inspection. The camera shall be moved through the line in either direction at a uniform slow rate by means of cable winches at each manhole. Contractor shall provide to Hudson Public Utilities a DVD record of the inspection as well as a type written report of the inspection.

Measurement for location of defects as shown on the contract drawings shall be at the ground level by means of a meter device. Marking on cable or the like which would require interpolation for depth of manhole, etc., will not be allowed. Measurement meters shall be accurate to 0.2 of a foot. A measuring target (or the sealing packer) in front of the television camera shall be used as an exact measurement reference point and the meter reading shall show this exact location of the measurement reference point.

All tracer wire must pass a locating test, in the presence of Hudson Public Utilities, prior to acceptance of respective pipe installation. All equipment necessary to perform the test shall be provided by the contractor.

Hudson Public Utilities will employ an independent testing laboratory to perform compaction testing to include 1 density test per 300 feet of trench and varying depths and 1 density test per 4 services installed. Contractor shall correct any defects. Cost of any retests shall be deducted from the contractor's payment.

D Measurement

The department will measure Sanitary Sewer PVC (size) by the linear feet from center manhole to center of manhole, 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.0090.07	Sanitary Sewer PVC 8-Inch	LF
SPV.0090.08	Sanitary Sewer PVC 10-Inch	LF
SPV.0090.09	Sanitary Sewer PVC 15-Inch	LF
SPV.0090.10	Sanitary Sewer PVC 18-Inch	LF
SPV.0090.11	Sanitary Sewer PVC 24-Inch	LF

Payment is full compensation for all excavating, backfilling, dewatering, sheeting, shoring, removing existing sanitary sewer, for furnishing and installing sanitary sewer, pipe joints, and all test procedures.

81. Sanitary Sewer Steel Casing 30-Inch, Item SPV.0090.12; Sanitary Sewer Steel Casing 30-Inch Special, Item SPV.0090.13.

A Description

This special provision describes furnishing and installing new steel sanitary sewer casing pipe all as shown on the plans and provided by these specifications.

B Materials

Pipes shall be in compliance with ASTM A53, Grade B, welded joint, wall thickness of 0.344-inch and a minimum yield stress of 35,000 psi. It is intended that the steel pipe would be lined if/when utilized for sanitary sewer conveyance.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

During the unloading process, all pipe and accessories shall be inspected by the contractor. Notify Hudson Public Utilities of all material found defective. Hudson Public Utilities will inspect the material and have the right to reject any materials found unsatisfactory. Promptly remove all rejected material from the job site.

Removal of existing facilities, trench excavation and backfill and restoration shall be according to the provisions of these specifications.

Lay and maintain all pipe to the lines and grades shown on the plans. Set pipe grades with a pipe laser.

Provide pipe of the material and size shown on the plans for the location.

Water mains crossing beneath sanitary or storm sewer mains or services shall be laid to provide a minimum separation of 18 inches between the top of the water main and the bottom of the sewer. When water mains pass above a sewer a minimum separation of 6 inches shall be provided.

Separate sewers and manholes at least 8 feet horizontally from any water main.

No pipe shall be laid in water or when the trench conditions are unsuitable for such work.

Removal and disposal of existing sanitary sewer, regardless of size or pipe material, shall be considered incidental to the work. Clay pipe may be crushed in place if remaining pieces are smaller than 3 inches. Keep clay pipe pieces away from new pipe.

Remove all foreign matter from the inside of the pipe before lowered into its position in the trench. Keep pipe clean by approved means during and after laying. Provide temporary plug in the end of incomplete piping at the end of day and when work stops.

Pipe laying shall proceed from the lowest end of the grade and bell ends of the pipe shall face upgrade. Provide watertight plugs at end of stubs installed for future connections. Maximum deviation from staked or plan grade shall be no more than 0.30 feet horizontal and grade slope variation of 0.50 percent.

Pipe shall be laid on solid subgrade material shaped to the contour of the pipe. All pipes shall be laid with ends abutting and true to line and grade. Pipe, which has in any way been disturbed or does not conform to said line and grade before final acceptance, shall be removed and relaid by the contractor at the contractor’s expense.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Place plug in end of incomplete piping at end of day and when Work stops. When water is present in trench, seals are to remain in-place while trench is pumped completely dry.

Provide watertight plugs at future connection plugs. Mark ends at the surface with 4x4 painted green. Mark location of casing in the curb by stamping an “S” into the top of curb and painting it green.

Trench Excavation Requirements:

- Alignment and Grade:
  - Excavate trench to alignment and grade as staked.
  - Excavate no more than 100 feet in advance of pipe laying operation.
- Trench Width at Pipe Zone:
  - Center trench on pipe alignment.
  - Minimum Width: Pipe O.D. plus 12 inches.
  - Maximum Width: Pipe O.D. plus 24 inches (except rock excavation).
- Excavated Materials:
  - Use stable material for backfill.
  - Waste unstable material as directed.
  - Do not place materials on sidewalk, driveways, or drainageways.
- Drainage:
  - Provide drainage excavations when required.
  - Drain trench water into natural channels or storm sewer.
  - Do not drain trench water into sanitary sewer.
- Rock Excavation:
  - Blasting shall conform to all local and state ordinances.
  - Submit blasting schedule for approval.
  - Minimum trench width: 36 inches.
  - Provide minimum 6-inch vertical clearance between pipe and rock trench bottom.
  - Provide minimum 12-inch horizontal clearance between pipe and rock trench walls.
  - Provide pipe foundation material for pipe in rock trenches.

Pipe Foundations:

Hudson Public Utilities to determine stability of the trench bottom.

Stable trench bottom:

Shape trench bottom to conform to bottom half of pipe.

Excavate bell holes to permit proper jointing.

Unstable trench bottom:

Excavate below pipe grade to specified depth.

Refill with specified foundation material according to plan detail and the special provisions for Backfill Coarse Aggregate No. 2.

Contractor shall receive compensation for Backfill Coarse Aggregate only for bedding pipe. Aggregate volume will be calculated as the pipe diameter plus 2 feet multiplied by the pipe length and a maximum depth of 12 inches. Aggregate used to stabilize trench walls, install dewatering equipment, or provide stable foundation outside of the pipe zone shall not be measured. Excess Aggregate used because of insufficient dewatering shall not be measured.

Trench Backfill Requirements:

Pipe Zone:

Use native or specified foundation material free of rocks and other unsuitable debris.

Deposit material uniformly on both sides of pipe throughout entire trench width.

Place material in 6-inch lifts and mechanically compact.

Above Pipe Zone:

Use native materials free of debris and rock, concrete or clay lumps with a volume greater than 1/3 cubic foot.

Place in uniform lifts no more than 1 foot thick.

Mechanically compact each lift of the upper 3 feet of the trench to a Standard Proctor.

Density of 100 percent.

Mechanically compact each lift under the upper 3 feet of the trench to a Standard

Proctor Density of 95 percent.

Do not backfill unless approved compaction equipment is operating.

Replacement Backfill:

Hudson Public Utilities to determine suitability of native material for backfill.

Use replacement backfill in lieu of native materials as directed.

Place according to the above trench backfill requirements for “Above Pipe Zone”.

Excess or Deficiency of Backfill Material:

Dispose of excess backfill material as directed after all trenches are backfilled.

Provide replacement backfill as required to establish required surface elevation.

Field Quality Control:

Density tests on backfill materials will be as directed by the Hudson Public Utilities.

Contractor to recompact all areas represented by failed density tests.

Costs for initial test and first retest will be considered incidental.

Costs of subsequent retests to be deducted from contractor’s payment.

All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental. All work shall be done by open trench excavation.

All dewatering of trenches will be incidental to the construction.

Sanitary Sewer Steel Casing (size) Special shall be jacked and bored into place. Contractor shall excavate jacking and receiving pits and shall verify the location of all existing facilities prior to commencing jacking operations. Contractor shall monitor existing roadway and shall repair any damage thereto.

Hudson Public Utilities will employ an independent testing laboratory to perform compaction testing to include 1 density test per 300 feet of trench and varying depths and 1 density test per 4 services installed. Contractor shall correct any defects. Cost of any retests shall be deducted from the Contractor's payment.

D Measurement

The department will measure Sanitary Sewer Steel Casing (size) (type) by the linear feet from end to end, 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.0090.12	Sanitary Sewer Steel Casing 30-Inch	LF
SPV.0090.13	Sanitary Sewer Steel Casing 30-Inch Special	LF

Payment is full compensation for all excavating, backfilling, dewatering, sheeting, shoring, removing existing sanitary sewer, for furnishing and installing sanitary sewer casing, pipe joints, and all test procedures.

82. Sanitary Service PVC 4-Inch, Item SPV.0090.14; Sanitary Service PVC 6-inch, Item SPV.0090.15.

A Description

This special provision describes furnishing and installing new sanitary sewer sanitary service and riser pipe all as shown on the plans and provided by these specifications.

B Materials

Pipes shall conform to the following:

Description	Class or Type	Specification	Joint
PVC Sewer Service Pipe	Schedule 40	ASTM D1785	Rubber Gasket or Solvent Cemented

Provide fittings and pipe of each material type from the same manufacturer.

Locating (tracer) wire shall be #12 solid copper with "HMWPE" 30 mil insulation. Insulation for sanitary sewer applications shall be green. To minimize splices, wire shall be supplied on spools of not less than 500 feet.

Test Box shall be Copperhead SnakePit CD14GTP or approved equal.

C Construction

Submit shop drawings to Hudson Public Utilities conforming to Standard spec 105.2 prior to ordering the material. State the name of the manufacturer, the product name and include information as required to show the product meets the requirements of these specifications.

The location and size of sanitary sewer services as shown on the plans are approximate. Actual locations and size may vary from what is shown. Provide pipe of the material shown on the plans regardless of pipe size.

During the unloading process, all pipe and accessories shall be inspected by the contractor. Notify Hudson Public Utilities of all material found defective. Hudson Public Utilities shall inspect the material and have the right to reject any materials found unsatisfactory. Promptly remove all rejected material from the job site. Remove all foreign matter from the inside of the pipe before lowered into its position in the trench. Keep pipe clean by approved means during and after laying.

Removal of existing facilities, trench excavation and backfill and restoration shall be according to the provisions of these specifications.

Building services may be placed in a common trench if installed concurrently. If not installed concurrently, a minimum 8 foot horizontal separation must be maintained between the water service and building sewers. A minimum of 12 inches vertical and 18 inches horizontal shall separate the water service from a sanitary service.

The point of commencement for laying of building service pipe shall be at the main. Building service pipe shall be laid with the bell end pointing upgrade. Any other procedure shall be followed only with permission of Hudson Public Utilities.

Install pipe at minimum 1 percent to maximum 2 percent grade.

Risers shall be constructed as shown in the details when directed by or approved by Hudson Public Utilities. They shall be brought up to an elevation such that the service lateral will be approximately 11 feet below finished grade at property line. Riser pipe shall be laid at approximately a one to one slope to the desired depth. The remaining sewer service lateral will be laid at a minimum slope of 1 percent. The top pipe of the riser shall be a 45-degree bend. The end pipe shall be bulkheaded and marked with flagging 2 feet above the top of the riser.

All new sewer service locations shall be installed as shown on the plans or at the center of the proposed lot. If the service is not immediately connected to the house, the location of the stub end shall be marked by the contractor using a 4-inch by 4-inch by 8-foot timber set 4 feet below grade. Place gasketed plug at end of pipe.

Removal and disposal of existing sanitary sewer service materials, regardless of size or pipe material, shall be considered incidental to the work.

Installation of pipe shall conform to ASTM D2321. There shall be no mixing of different manufacturer's pipe or fittings on a project. Compact haunching area to specified density required by ASTM D2321.

Install tracer wire along entire length of service riser and pipe, from wye to service end and up to access box, taped to top center. Avoid splices and underground connections. If splices are required, provide UL-listed moisture proof connectors, self-sealing compression or heat shrink type. Allow at least 2 feet excess tracer wire to remain coiled beneath test box. Locate test box at property line or as directed by Hudson Public Utilities. Mark location with steel fence post or as directed by Hudson Public Utilities.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Install gaskets and forms according to manufacturer's recommendations for use of lubricants, cements, and other special installation requirements.

Trench Excavation Requirements shall conform to specifications listed within Sanitary Sewer special provisions.

All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental. All work shall be done by open trench excavation.

Record the location, size, length, and number of bends on services on a record drawing. Measure service locations from the closest downstream manhole. Submit sanitary record drawings to Hudson Public Utilities and utility upon completion of the sanitary portion of the project.

Reconnect services to the existing sewer and adjusting service without damage to the pipe. Proper watertight joints must be made.

The contractor shall be responsible to locate the existing underground sewer services. The plans will supply the contractor with the approximate locations as available to the Owner. If the initial excavation for the location of existing building sewers and water services fails to uncover the existing services, the contractor, at his own expense, shall explore a distance of 6 feet in each direction of the initial excavation, or a total of 12 feet, immediately in back of and parallel to the curb, or along the water main. If the existing building sewers or water services cannot be located within these limits, and additional trenching is required, the contractor shall notify Hudson Public Utilities.

Where a sewer main is to be abandoned and replaced, each existing service, whether active or apparently inactive, shall be provided with an outlet to the new sewer.

Where an existing service has been identified as abandoned, the contractor shall omit a new service.

Hudson Public Utilities will employ an independent testing laboratory to perform compaction testing to include 1 density test per 300 feet of trench and varying depths and 1 density test per 4 services installed. Contractor shall correct any defects. Cost of any retests shall be deducted from the contractor's payment.

Mark location of tracer wire test boxes in the curb by stamping an "S" into the top of curb and painting it green.

D Measurement

The department will measure Sanitary Service PVC (size) by the linear feet from the center of the main to the end of service, 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.0090.14	Sanitary Service PVC 4-Inch	LF
SPV.0090.15	Sanitary Service PVC 6-Inch	LF

Payment is full compensation for all excavating, backfilling, dewatering, sheeting, shoring, removing existing sanitary services, for furnishing and installing sanitary service, pipe joints, and all test procedures.

83. Remove Retaining Walls, Item SPV.0090.18.

A Description

This special provision describes removing existing retaining wall as shown on the plans and provided by these specifications.

B Materials

Provide backfill that is in conformance to the standard specifications.

C Construction

Contractor shall remove and dispose of retaining wall blocks, tie backs, drain tiles, and railings. Contractor shall temporarily support soils above the retaining wall until backfill can be placed.

D Measurement

The department will measure Remove Retaining Wall 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.0090.18	Remove Retaining Walls	LF

Payment is full compensation for all removal and disposal.

84. Salvage and Reinstall Fence, Item SPV.0090.19.

A Description

This special provision describes salvaging the existing chain link fence and reinstalling it as shown on the plans and provided by these specifications.

B Materials

Provide concrete for corner posts in conformance with standard spec 501.

C Construction

Contractor shall carefully salvage the existing chain link fence including fabric, posts, tension wires and hardware. Contractor shall store salvaged materials carefully. After installation of sanitary sewer and grading has been completed, contractor shall reinstall fence. Pour new concrete footings at all corner posts. Contractor shall replace any materials that were damaged or lost during salvage or storage.

Contractor may, at its discretion, dispose of all existing materials and provide new materials.

D Measurement

The department will measure Salvage and Reinstall Fence 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.0090.19	Salvage and Reinstall Fence	LF

Payment is full compensation for all salvaging, storage, furnishing new materials, placing the concrete footing, and installation.

85. Salvage and Reinstall Beam Guard, Item SPV.0090.20.

A Description

This special provision describes removing and stockpiling guard rail, blockouts, posts, and terminals at existing locations and reinstalling the guardrail and guardrail components at the same location as shown on the plans. Install beam guard according to the details shown on the plans. Beam guard shall be in place before opening to live traffic. Provide additional material to complete the installation as needed.

B Materials

Provide replacement guardrail posts and blocks according to standard spec 614 to supplement the existing posts and blocks that may be damaged.

Provide replacement hardware according to standard spec 614 to supplement the existing hardware that may be damaged.

C Construction

Rail, hardware, and reusable posts are to be reinstalled on the project.

Install the salvaged rail and hardware on reusable or replacement posts and blocks according to standard spec 614.

Contractor may, at its discretion, dispose of all existing materials and provide new materials.

D Measurement

The department will measure Salvage and Reinstall Beam Guard 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.0090.20	Salvage and Reinstall Beam Guard	LF

Payment is full compensation for removing existing beam guard, hardware, posts, and blocks; for providing replacements posts and blocks as needed; for providing additional hardware as needed; and for installing the salvaged beam guard.

86. Salvage Modular Block Retaining Wall, Item SPV.0090.21.

A Description

This special provision describes removing and salvaging existing modular block or landscape timber retaining walls and reinstalling the retaining walls at the same location., or as the engineer directs, to the limits shown on the plans.

B Materials

Salvage and reuse the existing materials. Provide geotextile fabric Type R according to the standard spec 645.

C Construction

Remove and salvage existing retaining wall materials. Remove any existing geotextile fabric that may exist behind the retaining wall and dispose of it.

Stockpile and store retaining wall blocks or landscape timbers until they are ready to be reinstalled.

Replace any removed geotextile fabric that was removed according to standard spec 645.3. Reinstall retaining wall or landscape timbers at the existing location without damage to the retaining wall blocks or landscape timbers. Replace any damaged retaining wall blocks or landscape timbers at no expense to the department.

D Measurement

The department will measure Salvage Retaining Wall 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.0090.21	Salvage Modular Block Retaining Wall	LF

Payment is full compensation for removing retaining wall from existing location; for stockpiling and storage of salvaged retaining wall blocks or landscape timbers; for furnishing and installing geotextile fabric; for reinstalling retaining wall; for replacement of damaged installations and disposing of surplus materials; and for restoring the work site.

87. Retaining Wall Footing, Item SPV.0090.22.

A Description

This special provision describes excavating the area beneath an existing retaining wall, placement of base aggregate dense, and pouring a concrete footing under portions of an existing retaining wall where adjacent sidewalk or driveway elevations have been lowered and the top of wall elevation of the retaining wall needs to be maintained. This item will be used in conjunction with the Salvage Retaining Wall item for removing and reinstalling the wall.

B Materials

Furnish grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in 716.

Furnish steel reinforcement conforming to standard spec 505.

C Construction

Construct concrete retaining wall footing as detailed in the plan at locations where sidewalk or driveway elevations are being lowered adjacent to existing retaining walls where the top of wall elevation needs to be maintained.

Footing width will be existing retaining wall width plus 4 inches, generally 1.5 foot or less. Match bottom elevation of new sidewalk with bottom of footing elevation. Footing height is variable and will typically be between 6 and 8 inches.

D Measurement

The department will measure Retaining Wall Footing 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.0090.22	Retaining Wall Footing	LF

Payment is full compensation for excavating, forming, and placement; concrete and reinforcement steel; and for restoring the work site. Base aggregate dense 1-1/4” will be paid separately.

88. Marking Crosswalk Grooved Epoxy Ladder Pattern 36-Inch, Item SPV.0090.23.

Apply Marking Crosswalk Grooved Epoxy Ladder Pattern 36-Inch according to standard spec 646 and according to the plan details.

Measurement and payment for Marking Crosswalk Grooved Epoxy Ladder Pattern 36-Inch will be for the linear foot of all 10 foot lines.

89. Concrete Curb and Gutter 24-Inch Type A, Item SPV.0090.24.

A Description

This special provision describes construction concrete curb, concrete curb and gutter, and concrete gutter according to the details shown in the plans, and the requirements of standard spec 601.

B Materials

Provide materials that conform to the requirements of standard spec 601.2.

C Construction

Construct according to the requirements of standard spec 601.3.

D Measurement

The department will measure Concrete Curb and Gutter 24-Inch Type A 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.0090.24	Concrete Curb and Gutter 24-Inch Type A	LF

Payment will be made according to standard spec 601.5.

90. Cure and Seal Treatment Concrete Curb and Gutter, Item SPV.0090.025; Cure and Seal Treatment Concrete Curb Pedestrian, Item SPV.0090.026; Cure and Seal Treatment Concrete Median Sloped Nose, Item SPV.0165.003; Cure and Seal Treatment Concrete Sidewalk, Item SPV.0165.004; Cure and Seal Treatment Concrete Steps, Item SPV.0165.005.

A Description

This work includes treating all newly constructed concrete median sloped nose, concrete sidewalks, concrete curb and gutter, concrete curb pedestrian, and concrete steps with a surface cure and seal treatment as shown on plans, and as hereinafter provided.

B Materials

Materials shall conform to a clear treating material listed on the current approved WISDOT product list for “Cure and Seal Compounds for Non-Trafficked Surfaces on Structural Masonry”.

C Construction

Application rates for the treating material shall be according to the manufacturer’s specifications.

For non-patterned concrete surfaces, apply material using either a low pressure commercial grade sprayer or a roller equipped with a short nap roller sleeve. For Brush patterned or colored concrete surfaces, material must be applied using a roller equipped with a short nap roller sleeve.

Apply second coat of same material for sealing after the first coat is dry and within 72 hours or as directed by engineer in the field, on all surfaces.

D Measurement

The department will measure the Cure and Seal Treatment: Concrete Median Sloped Nose, Concrete Sidewalk, and Concrete Steps by the square foot, acceptably completed.

The department will measure the Cure and Seal Treatment: Concrete Curb and Gutter and Concrete Curb Pedestrian 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.0090.025	Cure and Seal Treatment, Concrete Median Sloped Nose	LF
SPV.0090.026	Cure and Seal Treatment, Concrete Sidewalk	LF
SPV.0165.003	Cure and Seal Treatment Concrete Curb and Gutter	SF
SPV.0165.004	Cure and Seal Treatment, Concrete Curb Pedestrian	SF
SPV.0165.005	Cure and Seal Treatment, Concrete Steps	SF

Payment is full compensation for curing and sealing treatment for concrete median sloped nose, concrete sidewalk, concrete curb and gutter, concrete curb pedestrian, and concrete steps.

91. Concrete Curb and Gutter 24-Inch Type D, Item SPV.0090.27.

A Description

This special provision describes construction concrete curb, concrete curb and gutter, and concrete gutter according to the details shown in the plans, and the requirements of standard spec 601.

B Materials

Provide materials that conform to the requirements of standard spec 601.2.

C Construction

Construct according to the requirements of standard spec 601.3.

D Measurement

The department will measure Concrete Curb and Gutter 24-Inch Type D 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.0090.27	Concrete Curb and Gutter 24-Inch Type D	LF

Payment will be made according to standard spec 601.5.

92. Abandon Existing Water System, 8080-05-72, Item SPV.0105.01; Abandon Existing Water System, 8080-07-72, Item SPV.0105.18.

A Description

This special provision describes abandoning the existing water system according to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials

Provide backfill that is according to standard spec 209.

C Construction

Upon completion and acceptance of the new water system and verification that all services have been transferred to the new water main, contractor shall abandon the existing water system in place. Gate valves and curb stops shall be turned to the off position and the left in place. Gate valve and curb stop boxes shall be removed and disposed of. Upon removal, backfill to grade. Install a plug at main end and connect using mechanical joints. Water main and gate valves in conflict with the proposed water main, proposed sanitary sewer or proposed storm sewer shall be removed and disposed of.

D Measurement

The department will measure Abandon Existing Water System by the lump sum, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Abandon Existing Water System, 8080-05-72	LS
SPV.0105.18	Abandon Existing Water System, 8080-07-72	LS

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; salvaging and delivering hydrants, properly disposing of surplus material; cleaning up and restoring the site of work.

93. Abandon Existing Sanitary System, 8080-02-61, Item SPV.0105.02; Abandon Existing Sanitary System, 8080-05-72, Item SPV.0105.19; Abandon Existing Sanitary System, 8080-07-72, Item SPV.0105.20.

A Description

This special provision describes abandoning the existing sanitary sewer system according to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials

Provide backfill that is according to the standard specifications.

C Construction

Upon completion and acceptance of the new sewer system and verification that all services have been transferred to the new sewer main, contractor shall abandon the existing sewer system in place. Castings, cones and barrel sections shall be removed and disposed of. Bases can remain in place. Sanitary sewers shall be filled with blown silica sand and plugged at both ends. Sanitary sewers, sanitary manholes in conflict with the proposed water main, proposed sanitary sewer or proposed storm sewer shall be removed and disposed of. Cleanouts shall be removed and disposed of. Upon removal, backfill to grade.

D Measurement

The department will measure Abandon Existing Sewer System by the lump sum, acceptably completed

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.02	Abandon Existing Sanitary System, 8080-02-61	LS
SPV.0105.19	Abandon Existing Sanitary System, 8080-05-72	LS
SPV.0105.20	Abandon Existing Sanitary System, 8080-07-72	LS

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; salvaging and delivering castings, filling, properly disposing of surplus material; and cleaning up and restoring the site of work.

94. Inside Drop, Item SPV.0105.03.

A Description

This special provision describes furnishing and installing a sanitary manhole inside drop as hereinafter provided.

B Materials

Inside drop bottom elbow, riser, tee, ledge and exterior extension shall be PVC C900. Riser brackets shall be stainless steel.

C Construction

Construct inside drop, including bottom elbow, riser, tee, ledge and exterior extension according to Plate # SAN-2. Contractor shall take special care to compact the soil around the manhole below the exterior extension.

D Measurement

The department will measure Inside Drop by the lump sum, acceptably completed

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.03	Inside Drop	LS

Payment is full compensation for furnishing and installing all materials.

95. Salvage and Reinstall Light Pole, Item SPV.0105.05.

A Description

This special provision describes salvaging the existing private parking lot light at Station 216+51, 84’ RT, and reinstalling it as shown on the plans and provided by these specifications.

B (Vacant)

C Construction

Contractor shall coordinate with property owner to de-energize light pole. Contractor shall carefully disconnect and salvage the existing light pole and luminaire. Contractor shall remove existing light pole base. Contractor shall store salvaged materials carefully. After installation of sanitary sewer and grading has been completed and the new light pole base has been installed, contractor shall reinstall light pole. Contractor shall replace any materials that were damaged or lost during salvage or storage.

Contractor may, at its discretion, dispose of all existing materials and provide new materials.

D Measurement

The department will measure Salvage and Reinstall Light Pole by the lump sum, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.05	Salvage and Reinstall Light Pole	LS

Payment is full compensation for all salvage, storage, furnishing new materials and installation.

96. Salvage and Reinstall Sign, Item SPV.0105.06.

A Description

This special provision describes salvaging the existing Welcome to Hudson sign at Station 215+30 RT, and reinstalling it as shown on the plans and provided by these specifications.

B Materials

Provide concrete for bases in conformance with standard spec 501.

C Construction

Contractor shall coordinate with city to de-energize sign lighting. Contractor shall carefully disconnect and salvage the existing sign lighting. Contractor shall carefully disassemble and salvage existing sign. Contractor shall remove existing sign bases. Contractor shall store salvaged materials carefully. After installation of sanitary sewer and grading has been completed contractor shall construct new sign bases, reinstall sign and reinstall sign lighting. Contractor shall replace any materials that were damaged or lost during salvage or storage.

Contractor may, at its discretion, dispose of all existing materials and provide new materials.

D Measurement

The department will measure Salvage and Reinstall Sign by the lump sum, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.06	Salvage and Reinstall Sign	LS

Payment is full compensation for all salvage, storage, furnishing new materials and installation.

97. Remove Pedestrian Beacon STH 35 & St. Croix Street, Item SPV.0105.07.

A Description

This special provision describes removing Pedestrian Beacons according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

Arrange for the de-energizing of the pedestrian beacon with the local electrical utility after receiving approval from Hudson Public Utilities that the pedestrian beacon can be removed.

Notify the city's Department of Public Works, Mike Mroz, at (715) 716-5746 at least five working days prior to the removal of the pedestrian beacon. Complete the removal work as soon as possible following shut down of this equipment.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Remove the beacons, wiring/cabling, and mounting devices from each signal standard, pole. Dispose of all materials.

D Measurement

The department will measure Removing Traffic Signals (Location) as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.07	Remove Pedestrian Beacon STH 35 & St. Croix Street	LS

Payment is full compensation for removing and disposing of pedestrian beacons.

98. AC Powered RRFB System STH 35 & St. Croix Street, Item SPV.0105.08.

A Description

This work shall consist of furnishing and installing a MUTCD compliant 110 VAC rectangular rapid flashing beacon (RRFB) system consisting of multiple assemblies as described herein and as shown in the plans. Each assembly shall be pedestrian activated. The assemblies shall be wirelessly controlled and multiple units shall be synchronized.

B Materials

Furnish and deliver a complete AC RRFB system with multiple assemblies. Each assembly is to be a complete assembly, consisting of, but not limited to, light indications, electrical components (wiring, solid-state circuit boards, etc), signs, push buttons, and poles/pedestal bases. An assembly may include the following items:

Light Indications:

Each indication shall be a minimum size of approximately 5 inches wide by 2 inches high. Two indications shall be installed on an assembly facing each direction of approaching vehicular traffic. The two indications shall be aligned horizontally, with the longer dimension of the indication horizontal, and a minimum space between the two indications of approximately 7 inches measured from inside edge of one indication to inside edge of second indication.

A single indication shall be installed on an assembly facing in the direction of approaching pedestrian traffic to serve as a confirmation for the pedestrian that the system has been activated.

The outside edges of the two indications, including any housing, shall not protrude beyond the outside edges of the integral signage of the assembly.

The light intensity of the indications shall meet the minimum specifications of the Society of Automotive Engineers (SAE) standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005. Contractor shall furnish a Certificate of Compliance for this standard. Specifically, the certificate should state that the indications: "Meet photometry of jurisdictional compliance standard(s) identical to: 2 J595 Class 2 Nov08 Yellow Peak Cd and 2 J595 Class 3 Nov08 Yellow Cds/Min.

Each indication shall be located between the bottom of the crossing warning sign and the top of the supplemental downward diagonal arrow plaque. All exposed hardware shall be anti-vandal.

Signs:

- Signage shall include:
- W11-2
- W16-7 (left and right)
- R-10-25

The assemblies must be constructed to allow the appropriate space for the installation of the signs in the field.

Control Circuit:

The control circuit shall have the capability of independently flashing up to two independent outputs. The LED light outputs and flash pattern shall be completely programmable.

The flashing output shall have 70 to 80 periods of flashing per minute with a 100 - millisecond duration on time. The output shall reach the output current as programmed for the duration of the pulse.

When two indications are mounted side-by-side, they shall have alternating but approximately equal periods of rapid pulsing light emissions and dark operation. Also, during each of the 70 to 80 flashing periods per minute, one of the indications shall emit two rapid pulses of light and the other indication shall emit three rapid pulses of light.

Flash rates with the frequencies of 5 to 30 flashes/second shall not be used to avoid inducing seizures.

When activated, the RRFB shall operate for a predetermined interval based on MUTCD procedures for timing of pedestrian clearance times for pedestrian signals. Coordinate with the department for this interval.

To prevent continuous activation of the RRFB and to allow vehicular queue clearance, the RRFB shall be programmed to prevent activation within 30 seconds of the termination of a previous activation.

The control circuit shall be installed in an IP67 NEMA rated enclosure. All circuit connectors shall conform to Ingress Protection, IP-67 rating, dust proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes. Connectors shall be Deutsch DTM series.

Pushbutton:

Furnish freeze-proof ADA compliant pedestrian push buttons made by an approved manufacturer to meet requirements of Standard Spec 658.

Aluminum Pole Standard and Pedestal Base:

The supporting structure (pole, breakaway transformer base, sign supports), shall be constructed of anodized aluminum and meet requirements of Standard Spec 657.

Hardware:

Furnish all hardware, connections, etc to make the RRFB system fully operational.

C Construction

Install the RRFB system per manufacturer's recommendations

D Measurement

The department will measure AC Powered RRFB System (Location) as a lump sum, as shown on the plans, acceptably furnished and delivered.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.08	AC Powered RRFB System STH 35 & St. Croix Street	LS

Payment is full compensation for providing and furnishing and installing a fully operational AC powered RRFB system.

99. Remove and Salvage Traffic Signals, STH 35 and Coulee Road, Item SPV.0105.09; Remove and Salvage Traffic Signals, STH 35 and Monroe Street, Item SPV.0105.10.

A Description

This special provision describes removing and salvaging existing aboveground traffic signals and equipment at the intersection of STH 35 and Coulee Road and STH 35 and Monroe Street according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Notify the WisDOT Electrical Field Unit at (715) 577-3854 at least five working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

The department assumes that the equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working traffic signal equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, will be replaced by the contractor at no cost to the department.

Remove the pole per plan from its concrete footing and disassemble out of traffic. Remove the transformer base from the pole. Remove the signal heads, luminaires, wiring/cabling, and traffic signal mounting devices from the pole. Ensure that all access hand hole doors and all associated hardware remain intact. Dispose of the underground signal cable, internal wires and street lighting cable off the state right-of-way.

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

Existing City of Hudson aboveground traffic signal equipment from the Coulee Street intersection will be salvaged and stockpiled for the City of Hudson. Contact Dean Chamberlain at (715) 716-5729 once completed for the city to pick up the equipment.

Existing Wisconsin DOT aboveground traffic signal equipment from the Monroe Street intersection will be salvaged and delivered to the WisDOT Electrical shop located at: 5009 Hwy 53 S, Eau Claire, WI 54701. Contact the department's Electrical Field Unit at (715) 577-3854 prior to delivery. Cost for delivery of traffic signal equipment shall be considered incidental to other electrical items in the contract.

D Measurement

The department will measure Remove Traffic Signals as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.09	Remove and Salvage Traffic Signals, STH 35 and Coulee Road	LS
SPV.0105.10	Remove and Salvage Traffic Signals, STH 35 and Monroe Street	LS

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material, and for delivering the requested materials to the department. Payment also includes full compensation for removing, scrapping, and disposing of material and incidentals necessary to complete the contract work.

100. Temporary Non-Intrusive Vehicle Detection System, STH 35 & Division Street, Item SPV.0105.11; Temporary Non-Intrusive Vehicle Detection System, STH 35 & North Street/Shop Road, Item SPV.0105.12; Temporary Non-Intrusive Vehicle Detection System, STH 35 & South Street, Item SPV.0105.13.

A Description

This work shall consist of furnishing, installing, maintaining and placing into operation a temporary non-intrusive vehicle detection system (NIVDS) as shown on the plans, and as directed by the engineer in the field.

B Materials

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway and provides detection outputs to a traffic signal controller. The materials shall also include all brackets, mounting hardware, cable, terminations, interface panels, and all other incidentals for the installation of the non-intrusive vehicle detection equipment. This equipment shall meet the NEMA environmental, power and surge ratings as set forth in NEMA TS2 specifications.

All detection equipment, components, and terminations supplied under this item shall be fully compatible with the temporary traffic signal controller supplied for the project. The system architecture shall fully support Ethernet networking of system components. All required interface equipment needed for transmitting and receiving data shall be provided with the NIVDS.

The NIVDS shall provide flexible detection zone placement anywhere and at any orientation. Preferred detector configurations shall be detection zones placed across lanes of traffic for optimal count accuracy, detection zones placed parallel to lanes of traffic for optimal presence detection accuracy of moving or stopped vehicles. Detection zones shall be able to be overlapped for optimal road coverage.

C Construction

The temporary NIVDS shall be installed by supplier factory-certified installers and as recommended by the supplier and documented in installation materials provided by the supplier.

In the event, at installation or turn on date, a noticeable obstruction is present in line with the detection zone(s), the contractor **shall** be obligated to advise the engineer before setting the zone.

The non-intrusive vehicle detection system, as shown in the traffic signal construction plans, **shall** be complete, in place, tested, and in full operation during each stage of construction.

Maintain all temporary vehicle detection zones as the plans show or as the engineer directs. The temporary vehicle detection zones shall be set near the vicinity and with approximate distance from the stop bar as shown on the plans. Check temporary vehicle detection zones every other week and at the opening of each stage of temporary traffic signal operation to ensure that they are working properly and aimed properly. Periodic adjustment of the detection zones and/or moving of the temporary vehicle detection sensors may be required due to changes in traffic control, staging, or other construction operations.

Ensure the non-intrusive vehicle detection system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

D Payment

The department will measure Temporary Non-Intrusive Vehicle Detection System (Location) 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.0105.11	Temporary Non-Intrusive Vehicle Detection System, STH 35 & Division Street	LS
SPV.0105.12	Temporary Non-Intrusive Vehicle Detection System, STH 35 & North Street/Shop Road	LS
SPV.0105.13	Temporary Non-Intrusive Vehicle Detection System, STH 35 & South Street	LS

Payment is full compensation for furnishing and installing the temporary non-intrusive vehicle detection system, including cabling, mounting brackets, mounting hardware, terminations, interface panels, testing and set up; for periodic checking and resetting of detection zones; for periodic cleaning for dirt and dust build-up; and for removing all equipment at the completion of the project.

101. Traffic Signal Controller and Cabinet Fully Actuated 8 Phase, STH 35 & Coulee Road, Item SPV.0105.14.

A Description

This work shall consist of furnishing and installing a traffic signal cabinet and controller as shown on the plans and as hereinafter provided. The contractor shall apply for an electrical service rewire from the local energy company on behalf of the City of Hudson. The contractor shall coordinate and pay for the underground electrical service rewire including application; necessary conduits, conductors, and final connection to the controller

The contractor shall submit two copies of the following; conductor layout to signal standards with the associated head arrangements and other pertinent details.

Equipment will be examined, and tests will be performed to ensure that proper and sufficient equipment is furnished as is required to complete the signal plan operation and sequence in compliance with the intent of the contract specifications.

All testing and equipment examination shall be in the presence of the contractor's representative furnishing the equipment. The contractor's representative will be notified of any needed modifications or corrections to be accomplished by the contractor.

The cabinet shall not be installed until it is in proper working order.

After the contractor has mounted the cabinet on the cabinet foundation, he shall connect all the field wiring inside the controller cabinet and test the signal circuits for correct operation. The contractor shall connect and test the signal circuits outside the controller cabinet as directed by the engineer. Connecting and testing signal circuits shall be considered part of this item of work.

The controller shall be a fully traffic actuated, solid state, digital microprocessor based controller, capable of providing the number and sequence of phases, overlaps and any special logic as described herein and shown on the accompanying plan.

The controller shall be a **Siemans M62 or the newest equivalent**.

The controller shall be fully programmed and shall be mounted in a control cabinet to operate as a complete and functioning intersection traffic signal control system. The equipment items included shall be, but not necessarily limited to, cabinet, microprocessor based controller, conflict monitor, power distribution panel, interior cabinet wiring and other associated electrical and electronic equipment interior to the control cabinet that is necessary to provide the type of operation described in these specifications.

The final programming shall be done by the supplier, with information supplied by the City of Hudson.

A four ring, programmable for both single and dual entry concurrent timing, nine phase frame or equivalent shall be provided. Volume density timing shall be provided for eight phases and pedestrian timing shall be provided for all phases. MUTCD flashing capability shall be provided. All controls shall be according to the accompanying plans and with NEMA Standards Publication No. TS1-1976 including Revisions No. 1 and No. 2.

The intersection controller unit shall be capable of up to 16 phase operation plus 16 programmable overlaps regardless of whether preemption, coordination or special programming is used. The intersection cabinet shall be wired for a minimum of twelve and include eight 3 circuit load switches.

B General Requirements

B.1 General

Furnish and install equipment and assemble the cabinet conforming to the latest revision of NEMA Standards Publication TS 2 Version 2.06 (R2008), *Traffic Controller Assemblies with NTCIP Requirements*, National Electrical Manufacturers Association, hereinafter called NEMA TS2 Standard, except where modified in this specification. All work shall conform to the Wisconsin State Electrical Code (WSEC). All work shall conform to standard spec 651 as supplemented or modified in this specification.

Provide cabinets designed for TS2 Type 2 operation. Pre-wire cabinets for a minimum of 16 phases as specified herein.

Furnish and install at no extra cost any equipment and materials not specifically described but required in order to perform the intended functions in the cabinet.

Provide arc flash protection within the cabinet as needed to satisfy NFPA 70E and OSHA requirements.

Install the cabinet on the foundation and terminate all connections. Test for correct operation.

C Cabinet

C.1 Design

Furnish a door-in-door ground mounted (without anchor bolts) aluminum cabinet of clean-cut design and appearance. Provide a cabinet of minimum size 44 inches wide, minimum 24 inches deep and minimum 52 inches to maximum 60 inches high. The size of the cabinet shall provide ample space for housing the controller, all of the associated devices which are to be furnished with the controller, all other auxiliary devices herein specified, and all equipment to be furnished and installed by others as listed in the Description section of this specification.

The cabinet shall comply with the environmental and operating standards outlined in the NEMA TS2 Standard. The cabinet shall provide reasonable vandalism protection. The cabinet shall have a NEMA 3R rating.

Construct the cabinet from type 5052-H32 aluminum with a minimum thickness of 0.125 inches. Furnish the cabinet with a natural, uncoated, aluminum finish inside and outside. Continuously weld all seams. The surface shall be smooth, free of marks and scratches. Use stainless steel for all external hardware.

On the top of the cabinet, incorporate a 1-inch slope toward the rear to prevent rain accumulation. Incorporate a rain channel into the design of the main door opening to prevent liquids from entering the enclosure.

Include an exhaust plenum with a vent screen into the roof of the cabinet. Perforations in the vent screen shall not exceed 0.125 inches in diameter. Insulate the remaining area of the roof of the cabinet with a moisture resistant rigid foam board insulation with a minimum R value of 4.0 that can be perforated for an antenna.

Equip the lower section of the cabinet door with a louvered air entrance. The air inlet shall be large enough to allow sufficient air flow per the rated fan capacity. Louvers must satisfy the NEMA rod entry test for Type 3R ventilated enclosures. Secure a washable, fiberglass, removable air filter to the air entrance. The filter shall fit snugly against the cabinet door wall. Attach an aluminum, easily removable, gasketed cover over the air filter and louver.

C.2 Doors

The cabinet door opening shall be a minimum of 80 percent of the front surface of the cabinet. The main door and police door-in-door shall each close against a weatherproof and dust-proof, closed-cell neoprene gasket seal. The gasket material for the main door shall be a minimum of 0.188 inches thick by 1.00 inch wide. The gasket material for the police door shall be a minimum of 0.188 inches thick by 0.500 inches wide. Permanently bond the gaskets to the cabinet.

Equip the main door with a three-point latching mechanism. The upper and lower locking points of the latching mechanism shall each have a pair of nylon rollers. The handle on the main door shall utilize a shank of stainless steel 3/4 inches minimum diameter. The handle shall include a hasp for the attachment of an optional padlock. The cabinet door handle may turn either clockwise or counterclockwise to open and shall not extend outwards past the edge of the door at any time. Position the lock assembly so the key will not cause any interference with the handle, or a person’s hand on the handle, when opening the cabinet door.

Include on the main door a solid stainless steel rod stop and catch mechanism capable of rigidly holding the door open at approximately 90, 120, and 180 degrees under windy conditions. The operator must be able to engage and disengage the catch with a shoed or booted foot.

The main door hinge shall be a one-piece, continuous piano hinge with a minimum 0.25 inch stainless steel pin running the entire length of the right side of the door (right-handed). Attach the hinge in such a manner that no rivets or bolts are exposed.

Equip the main door with a brass Corbin tumbler lock No. 2, swing away dust cap, and provide two keys No. 2. Equip the police door-in-door with a standard police lock and provide one key.

Electrically bond the door to the rest of the cabinet with a braided copper grounding conductor. The length of the grounding conductor shall allow the door to swing fully open, without using the stop bar, without stretching or breaking the grounding conductor. The grounding conductor shall not interfere with normal door operation.

Provide a door switch for the main cabinet door. When the door is opened the switch shall send a signal to the controller sufficient for the controller to log an alarm.

C.3 Shelves and Mountings

Mount a minimum of three vertical "C" channels, compatible with Unistrut channel nuts, on each interior side wall of the cabinet for the purpose of mounting the cabinet components. The channels shall accommodate spring mounted nuts or studs. Install three vertical "C" channels or three slotted rails on the interior back wall of the cabinet. All mounting channels and rails shall extend to within 7 inches of the top and bottom of the cabinets and shall be of sufficient strength to rigidly hold specified shelves and equipment.

Provide two full-width, 11-inch deep, fully adjustable, aluminum shelves to support the controller and other equipment. Mount the lower shelf at a height above the bottom of the cabinet such that the shelf and attached drawer does not interfere with the ability to tilt the terminal facility forward on its hinges for maintenance purposes. Mount the top shelf at least 13 inches above the surface of the lower shelf.

Locate the controller and Malfunction Management Unit (MMU) on the top shelf. Locate the loop detector racks and other auxiliary equipment on the lower shelf. The power supply may be mounted on either shelf.

Provide Siemens M62 controller and EDI MMU2. Locate on the lower shelf. Locate the loop detector racks and other auxiliary equipment on the top shelf. The power supply may be mounted on either shelf.

Provide an under-shelf drawer beneath the lower shelf. The drawer shall be approximately 20 inches wide and a minimum of 12” deep. The drawer shall operate easily and smoothly and shall have a stop to prevent inadvertently pulling the drawer out of its support. Design the stop to allow purposeful complete removal of the drawer without the use of tools. Provide a slide out shelf capable of supporting a 5 pound, 14” wide by 11” deep load. This slide out support can be the cover for the drawer, as long as it extends far enough out to support the entire 11” depth of the laptop.

Provide a fully wired receptacle on the door that is specifically designed to support the twist and lock style plug specified for the heater element. Locate receptacle such that when installed, heater should be mounted a minimum of 6.5” from the bottom of the door.

C.4 Auxiliary Cabinet Equipment

Ventilate the cabinet by means of a 120 VAC, 60HZ, tube axial compact type fan located in the top of the cabinet plenum. The fan’s free delivery airflow shall be equal to or greater than 100 cubic feet per minute. The magnetic field of the fan motor shall not affect the performance of control equipment. The fan bearings shall operate freely. The fan unit shall not crack, creep, warp, or have bearing failure within a seven year duty cycle. The maximum noise level shall be less than 40 decibels. The fan unit shall be corrosion resistant. The thermostat's turn on setting shall be adjustable from 90 to 120 degrees F. The fan shall run until the cabinet temperature decreases below the turn-on temperature setting by approximately 30 degrees F. The fan shall be fused.

Mount a single LED light strip (GESS32-13200K or approved equal) at the top of the cabinet and the appropriate power supply to support up to four (4) light strip panels. Wire the power supply to an ON/OFF toggle switch. Mount two (2) LED light strips under the lower shelf fed off the power supply on the top of the cabinet. Locate one strip on each side of the drawer.

Provide a 250 watt element heater. Install the heater on the face of the aluminum, louvered air filter cover such that feed air is supplied through the cover. Provide a protective, ventilated cover over the heater. Provide a cord and twist-off plug to an electrical receptacle on the cabinet door. Provide a thermostat with an adjustable setting from 0 to 100 degrees F. Install the thermostat on the interior ceiling of the cabinet well away from the cabinet light or any heat source. Provide a thermal limit switch to prevent the heater’s protective cover from exceeding 170 degrees F.

D Terminals and Facilities

D.1 Terminal Facility

The terminal facility panel shall be constructed from 5052-H32 brushed aluminum of 0.125 inches minimum thickness and formed so as to eliminate any flexing when plug-in components are installed.

Mount the bottom of the terminal facility a minimum of nine inches from the bottom of the cabinet. Hinge the terminal facility at the bottom to allow easy access with simple tools to all wiring on the rear of the panel. It shall not be necessary to remove the lower shelf, the shelf drawer, or any shelf-mounted equipment to hinge down the terminal facility. Provide sufficient slack in the load bay wiring to allow for dropping the load bay.

Fully wire the terminal facility with 16 load switch sockets: eight phases of vehicular, 4 phases of pedestrian, and 4 phases of overlap operation; 8 flash transfer relay sockets; 1 flasher socket; and 2 terminal facility Bus Interface Unit (BIU) rack slots. The use of printed circuit boards is not acceptable on the terminal facility, except printed circuit boards are acceptable for the BIU interface with the load bay. Position the 16 load switch sockets in two horizontal rows of eight sockets each. Support the load switches and flasher by a bracket or shelf extending at least three inches from the terminal facility.

Label all terminals, load switches, and flash transfer relay sockets. Label reference designators by silk-screening on the front and rear of the terminal facility to match drawing designations.

Provide rack mounted BIU’s. Provide a dual-row, 64-pin female DIN 41612 Type B connector for each BIU rack position. Provide card guides for both edges of the BIU. Terminal and facilities BIU mounting shall be an integral part of the terminal facility.

Provide two each 16-channel, 8-position, TS2 detector racks, each with an integrally mounted BIU mounting. Racks shall be addressable. Power each detector rack by the cabinet power supply. Fasten the loop detector racks towards the left side of the top shelf.

For BIU rack connectors, provide pre-wired address pins or jumper plugs corresponding to the requirements of the NEMA TS2 Standard. The address pins or jumper plugs shall control the BIU mode of operation. BIUs shall be capable of being interchanged with no additional programming.

For the terminal facility, contain all field wires within one or two rows of horizontally-mounted Marathon (or approved equal) heavy duty terminal blocks. Terminate all field output circuits on an unfused terminal block with a minimum rating of 10 amps. Use mechanical connector lugs rated for copper wire. Angle the lower section of the terminal block out from the back of the cabinet at approximately a 45 degree angle.

Identify all field input/output (I/O) terminals by permanent alphanumeric labels. All labels shall use standard nomenclature per the NEMA TS2 Standard.

All field flash sequence programming at the field terminals shall be able to be accomplished with the use of only a screwdriver.

Wire field terminal blocks to use three positions per vehicle or overlap phase (green, yellow, red).

Wire one RC network in parallel with each flash transfer relay coil.

Permanently label all logic-level, NEMA-controller and MMU2 input and output terminations on the terminal facility. Identity the function of each terminal position on the cabinet drawings.

Terminal blocks for DC signal interfacing shall have a number 6-32 x 7/32 inch screw as minimum. Functions to be terminated shall be as specified in the listing of Input/ Output Terminals in Section 5 of the NEMA TS2 Standard.

Conform all terminal facility and cabinet wiring to the Wisconsin State Electrical Code (WSEC). The green/ walk, yellow, and red/ don't walk load switch outputs shall be minimum 16 gauge wire. The MMU (other than AC power), controller I/O, and logic ground shall be minimum 22 gauge wire. All wire colors shall be consistent in all cabinets furnished in one order.

D.2 Auxiliary Panels

D.2.1 Vehicle Detection Interface Panel

Provide a 32-position interface panel or two 16-position panels. Each interface panel shall allow for the connection of 32 or 16 independent field loops, respectively. The panels shall have barrier strip type terminals using 8-32 screws and be rated for 20 inch pounds of torque.

Provide a ground bus terminal between each loop pair terminal to provide a termination for the loop lead-in cable ground wire. Secure the interface panels to a mounting plate attached to the left interior side wall of the cabinet.

Provide a cable consisting of 20 AWG twisted pair wires to enable connection to and from the interface panel to a detector rack. The twisted pair wires shall be color-coded wires. Provide a cable of sufficient length to allow the detector rack to be placed on either shelf.

Provide a pathway or mechanism for securing loop lead in cables neatly next to interface panel.

Identify all termination points by a unique number silk screened on the panel.

D.3 Conductors and Cabling

All conductors in the cabinet shall be copper 22 AWG or larger. All 14 AWG and smaller wire shall conform to MIL-W-16878/1, Type B, 600V, 19-strand tinned copper. The wire shall have a minimum of 0.010 inches thick PVC insulation without clear nylon jacket and rated to 105 degrees Celsius. All 12 AWG and larger wire shall be UL or NRTL listed THHN/THWN 90 degrees Celsius, 600V, 0.020 inches thick PVC insulation, and clear nylon jacketed.

Provide controller and MMU2 cables of sufficient length to allow the units to be placed on either cabinet shelf in the operating mode. Connecting cables shall be sleeved in a braided nylon mesh. Exposed tie-wraps and interwoven cables are unacceptable.

Provide the cabinet configuration with enough SDLC RS-485 Port 1 communication cables to allow full capabilities of that cabinet. Each communication cable connector shall be a 15-pin metal shell D subminiature type. The cable shall be a shielded cable suitable for RS-485 communications. Secure all connecting cables and wire runs by mechanical clamps. Stick-on type clamps are not acceptable.

Pre-wire the terminal facility for a Type 16 MMU2.

All wiring shall be neat in appearance. Stow excess cable behind the terminal facility or below the shelves in order to allow easy access to the terminal facility and cabinet components. All cabinet wiring shall be continuous from its point of origin to its termination point. Butt type connections/splices are not acceptable.

Wire the grounding system in the cabinet into three separate circuits: AC Neutral, Earth Ground, and Logic Ground.

Optoisolate all pedestrian pushbutton inputs from the field to the controller through the BIU and operate at 12 VAC.

Hook or loop all wire, size 16 AWG or smaller, at solder joints around the eyelet or terminal block post prior to soldering to ensure circuit integrity. Lap joint soldering is not acceptable.

D.4 Cabinet Switches

Locate the following switches on a maintenance panel on the inside of the cabinet door:

a. Controller On/Off

b. Cabinet Light

c. Stop Time (Three Position)

d. Manual Detector Switches (Three Position)

Position	Switch Label	Function
Upper	Stop Time	Place stop time on the controller
Center	Run	Remove the stop time input to the controller
Lower	Normal	Connects the MMU to the controller stop time input

Locate the following switches behind the police access door:

a. Signal/Off

b. Flash/Normal

c. Hand/ auto

d. Coiled hand control and cable

The above switches shall function as follows:

Off: Signals Dark
Signal: Signals On and operating as follows:

	Auto	Hand
Flash:	Signals Flash	Signals Flash
Normal:	Signals Normal	Signals Advance by use of hand control

Position	Function
Up	Detector Disabled
Center	Detector Enabled
Down	Detector Called

E Power Panel

E.1 Design

The power panel shall consist of a separate module, securely fastened to the interior right side wall of the cabinet. Wire the power panel to provide the necessary power to the cabinet, controller, MMU2, cabinet power supply, and all auxiliary equipment. Manufacture the power panel from 0.090-inch, 5052-H32 aluminum. Panel layout shall facilitate field inspection and maintenance accessibility without excessive disassembly or special tools.

Provide a light, tough, transparent, weather-resistant, non-yellowing, thermoplastic cover, rigidly mounted over the full power panel, with access holes for circuit breakers and other equipment, and open on the sides for ventilation.

All components of power panel shall meet or exceed the electrical requirements as laid out in section 5.4 of the NEMA TS2 Standard.

Provide all necessary components for a battery backup system to be retrofit into the cabinet without needing to make changes to the wiring of the power panel. Battery Backup system will support only essential equipment in the cabinet. Fan, heater, and lighting panel are examples of non-essential equipment not expected to be supported by the battery backup system.

Do not install a jumper between the equipment ground and neutral. Instead, provide this bonding jumper in a separate package labeled “For Grounding Purposes.”

E.2 Grounding System

On each side of the cabinet, provide a minimum 20-position neutral bus bar capable of connecting three #12 AWG wires per position.

Also, on each side of the cabinet, provide a minimum 20-position neutral bus bar capable of connecting three #12 AWG wires per position.

E.3 Power Receptacles

Mount a 120 VAC 20 amp, NEMA 5-20R GFCI convenience outlet on the interior right side wall above or as part of the power panel. The outlet shall be fully operational and fuse protected.

Mount a 2-gang outlet on each side of the cabinet. Both of these outlets should be wired off the circuit breaker fed off the surge protector.

F Auxiliary Devices

F.1 Flashers

Provide one solid state flasher conforming to the requirements of section 6.3 of the NEMA TS2 Standard.

F.2 Flash Transfer Relays

Provide four flash transfer relays conforming to the requirements of section 6.4 of the NEMA TS2 Standard.

F.3 Cabinet Power Supply

Provide one cabinet power supply with each cabinet conforming to the requirements of section 5.3.5 of the NEMA TS2 Standard. Provide LED indicators for the 12 VDC, 12 VAC, and 24 VDC outputs. Provide jack plugs on the front panel for access to the +24 VDC for test purposes.

G Bus Interface Units (BIU)

Provide three BIUs conforming to the requirements of section 8 of the NEMA TS2 Standard. Provide two BIUs with the main panel and one BIU with one of the detector racks.

H Documentation

H.1. Cabinet Intersection Wiring Diagrams

At the time of the cabinet delivery, furnish with the cabinet three sets of printed 22x34-inch wiring diagrams.

I Traffic Signal Controller

The traffic signal controller provided shall be a Siemans M62 controller, compatible with the NEMA TS2 Type 2 specifications.

I.1 Firmware

Provide installed in the controller current, fully operational, controller firmware and software sufficient for the controller to perform all functions shown on the plans, sequence of operation plan sheet, specifications, and signal timing plan for the local intersection. Provide all software licenses.

The firmware and software shall be compatible with and able to fully communicate with:

- All phase sequences, including flashing yellow for both left and right turns.
- Communications, closed loop, and on-street control software designed for use with the provided controller and provided under separate bid items.
- Both the controller and the MMU.
- City of Hudson PC laptop and desktop computers with current Windows operating systems.
- The supplier's multi-level central operation software programs for potential future Application.

I.2 Features/ Functions

I.2.1 General

Provide shelf-mounted controller units.

Provide intersection controller units with up to 16-phase operation plus 16 programmable overlaps regardless of whether or not preemption, coordination, or other special programming is used. The intersection controller shall be wired for a minimum of twelve and include (8) three circuit load switches.

Provide a four-ring, programmable for both single and dual entry concurrent timing, nine-phase frame or equivalent. Provide volume density timing for eight phases and pedestrian timing for all phases. Provide MUTCD flash capability. All controls shall be according to the NEMA TS2 Standard.

All controller timing parameters shall be fully programmable from the front panel keyboard inputs, and memory storage features shall be non-volatile under power-off conditions for at least thirty days. A security code must be entered before any timing parameters can be changed. The locking, non-locking detection mode and per phase recall shall also be accessible on the front panel.

Provide a data key port on the controller to load and store intersection programming.

Internally buffer all logic circuit inputs to withstand transients and noise, such as might result from normal usage, without damage to any mechanism components.

I.2.2 Front Panel Display

Provide a display panel on the front panel consisting of a backlit alphanumeric LCD display. The face of the display shall be scratch, chemical, and solvent resistant. The operator shall access the controller through a menu system. By selecting various menu options, real time operational status or stored parameter tables shall be presented to the operator.

Show on the LCD display, in addition to information required elsewhere:

(a) The status of each signal phase on.
(b) The interval status.
(c) Phase termination information.
(d) The presence of vehicular and pedestrian calls for each phase.

I.2.3 Timing

The passage timer shall time concurrently with the minimum green timer, such that the duration of the minimum green time is directly adjustable and is independent of the passage time setting.

In the dual-ring application, no more than two phases shall be permitted to time concurrently, and no more than one phase per ring. Provide barrier protection against concurrent timing of two conflicting phases; no phases assigned to one side of the barrier shall be permitted to time concurrently, if a conflict will occur. Service calls on a single entry basis. Both rings shall cross the barrier simultaneously according to the following logic:

(a) Phases timing concurrently shall terminate simultaneously if both have a gap-out due to excessive time between actuations.
(b) Phases timing concurrently shall terminate simultaneously if both have a maximum timeout.
(c) Phases timing concurrently shall terminate simultaneously if one has a gap-out and the other has a maximum time-out.
(d) In the event that one phase has not achieved a gap-out or maximum time-out, the other gapped-out phase shall be permitted to leave the gapped-out condition and retime an extension when an actuation is received.

Controllers shall not accept any operator input or stored timing parameters that would result in intervals shorter than the following:

- yellow clearance - 3.0 seconds
- standard minimum walk - 4.0 seconds
- preemption minimum walk = 0.0 seconds
- minimum pedestrian clearance - 6.0 seconds

At the beginning of each of the above intervals, the controller shall check the previously stored data against these minimums. If an operator attempts to load an incorrect timing parameter the controller unit shall output a unique error code on the front panel display. As an alternate to minimum timing control a coded keyboard entry security feature may be provided.

I.2.4 Manual (Police) Control

If manual control is used, actuation of the manual control shall permit manual advance of the Walk, Pedestrian Clearance, and Green interval terminations only. Manual termination of Yellow or All-Red clearance intervals shall not be permitted.

I.2.5 Coordination

The controller shall be capable of operation in progressive coordination systems and mutual coordination and shall contain, but not be limited to, the following external inputs, with all functions brought out:

- Vehicle/Pedestrian Detectors (per phase)
- Pedestrian Omit (per phase)
- Phase Omit (per phase)
- Hold (per phase)
- Omit Red Clearance (per ring)
- Internal Maximum Inhibit (per ring)
- Maximum II (per ring)
- Red Rest (per ring)
- Stop Timing (per ring)
- Force-Off (per ring)
- Select Minimum Recall (per controller)
- Manual Control (per controller)
- Semi-Modes (per controller)
- External Start (per controller)

I.2.6 Diagnostic Program

Provide a diagnostic program prepared by the manufacturer of the controller unit which will demonstrate the proper operation of all of the inputs, outputs, controls and indicators in the controller, and have visual confirmation on the front panel. The diagnostic program shall be resident in each controller. The controller shall continuously run a diagnostic routine in the background to assure unit integrity.

I.2.7 Message Logging

Provide user programmable, data logging of local events or alarm events including, but not limited to: Conflict Flash, Remote Flash, Local Flash, Controller Voltage Monitor, Detector Failure, On Line and Data Change. The time and date shall be recorded as a part of the message logged. The logging function shall be resident in the controller unit. The logging function shall be viewed from the front panel LCD display. If the logging function cannot be viewed from the front panel LCD display, it shall be performed by supplemental auxiliary equipment supplied with this specification.

I.2.8 Closed Loop Operation

The controller shall be able to be used in a closed loop system using twisted pair copper, single mode fiber, multimode fiber, or wireless radio to connect to compatible equipment.

I.2.9 RS-232 Interface and Ethernet Port

Provide a RS-232C interface and connector for interconnecting to a conflict monitor, printer, another like controller unit, or a local personal computer, as well as a remote personal computer through an external modem. A modem is not required to be provided with this specification. Include Ethernet communications capability as a standard feature and provide an Ethernet port. Ports shall be on the front panel of the controller.

J Documentation

J.1 Cabinet Intersection Wiring Diagrams

For each individual cabinet ordered, within 10 calendar days after receipt of the procurement order, furnish to the city's engineer two sets of 22X34-inch detailed printed cabinet intersection wiring diagrams for information only.

At the time of the cabinet delivery, furnish to the city's engineer two sets of printed 22X34-inch cabinet intersection wiring diagrams per cabinet. Printing the 22X34-inch sheet in smaller sizes is not acceptable. Leave a third drawing in the under-shelf drawer in the signal cabinet. After cabinet acceptance is complete, if any cabinet wiring changes were made, revise the cabinet wiring diagrams, leave one drawing in the under-shelf drawer in the signal cabinet, and furnish to the city's engineer two sets of as-built printed cabinet wiring diagrams per cabinet. If no changes were made from time of cabinet delivery, notify the city's engineer in writing.

J.2 MMU and Controller Programming

At the time of cabinet delivery, furnish to the city's engineer two printed copies of the MMU programming and two copies of the signal timing in the traffic signal controller. Leave a third copy in the under-shelf drawer in the signal cabinet. After cabinet acceptance is complete, if any MMU or controller timing changes were made, revise the documents, leave one copy in the under-shelf drawer in the signal cabinet, and furnish to the city's engineer two copies per cabinet. If no changes were made from time of cabinet delivery, notify the city's engineer in writing.

J.3 Manuals

At the time of the cabinet delivery, furnish to the city's engineer one set of installation, operations, and maintenance manuals per cabinet including each type of equipment in the cabinet. The manuals shall as a minimum include the following information:

a) table of contents
b) operating procedure
c) step-by-step maintenance and trouble-shooting information for the entire assembly
d) schematic diagrams
e) pictorial diagrams of parts locations
f) itemized parts lists with parts numbers
g) theory of operation
h) maintenance checklists.

The itemized parts lists shall include the manufacturer's name and parts number for all components (such as IC, diodes, switches, relays, etc.) used. The list shall include cross references to parts numbers of other manufacturers who make the same replacement parts.

For each of the traffic signal controller and MMU, in addition to the above manual requirements, furnish one reference manual for the processor and components proposed to perform the controller and MMU functions. Include a complete set of schematics for the controller, MMU, and any auxiliary circuit boards either in the reference manual or in a separate volume. In addition, furnish a written narrative describing the controller and MMU operation and front panel configuration, and a conceptual flow chart illustrating the control logic for comparison with these specifications. The narrative shall include a discussion of any limitation or exceptions to the performance described in these specifications, and a discussion of any control capabilities provided in addition to that required in these specifications.

K Cabinet Delivery

The construction contractor will provide the traffic signal specifications and plans, including the sequence of operation, to the contractor. The vendor shall determine the required cabinet equipment and assembly requirements from the plans and specifications and provide the city's engineer a list of procurement items. The city's engineer will approve or request resubmittal of the procurement items list prior to the cabinet being built.

Provide the list of procurement items to the city's engineer a minimum of 30 days before the cabinet is scheduled to be installed in the field. The vendor is responsible for coordinating with the project construction contractor to determine the scheduled cabinet installation date. Cabinets shall be completed, delivered, and accepted within 50 calendar days after the city's engineer approves the procurement item list.

If the city makes a modification to any cabinet order before the entire cabinet is completely built in the vendor's shop, the delivery time does not change. If the city accepts a vendor requested cabinet order or other modification at any time, the delivery time does not change. All cabinet modifications will be made without additional cost to the city, except if an additional equipment item is added at the city's request and the additional item is not to remedy any contractor or vendor error.

The contractor shall deliver the fully wired and equipped cabinets to the intersection where the cabinet will be installed, or other site as designated by the city or the project construction contractor. The contractor is responsible for arranging the unloading of the cabinet.

The contractor is notified that delivery times and schedules may be changed or delayed at any time for any reason. The contractor may be required to store completed cabinets at their facility for extended periods of time.

L Acceptance Testing

Complete on-site traffic signal acceptance testing in the presence of the city. The acceptance testing will occur after the signal cabinet is fully installed at the project intersection and before the traffic signal is turned on. The construction contractor and the city will determine the time for the acceptance testing. In addition to the cabinet as specified in this specification, add-on accessory items, traffic signal interconnect, system communication, and closed loop system operation are included in the acceptance testing.

Provide an IMSA certified Traffic Signal Bench Technician, Level II or an IMSA certified Traffic Signal Field Technician, Level II with a minimum of three years' experience in construction and operation of traffic signal cabinets similar to the cabinets specified in this specification. Alternatively, provide a technician or electrician with a minimum of three years' experience in construction and operation of traffic signal cabinets similar to the cabinets specified in this specification. The technician or electrician shall be on-site during the entire acceptance testing and shall be capable and equipped to make in-field revisions / repairs to the signal cabinet and controller to conform to this specification.

Upon successful completion of the acceptance testing as determined by the city, a 30-day conditional acceptance of the signal cabinet will be provided to the contractor. Should the cabinet within the 30-day conditional acceptance period fail to perform in any way as determined by the city, the contractor shall repair the cabinet to bring it into conformance with this specification and the acceptance testing shall be repeated. Repair times shall conform to the warranty service response times in this specification. The acceptance testing shall be repeated. Upon successful completion of the retesting, a new 30-day conditional acceptance period shall begin. After the signal cabinet runs 30 days without failure, the cabinet will be fully accepted by the city. The contractor will be allowed up to two 30-day conditional acceptance periods. If the cabinet fails during the second 30-day period, an entirely new cabinet shall be furnished and installed in the field by the contractor at no cost to the city and a new acceptance testing procedure shall begin. Cabinet replacement times shall conform to the warranty service response times in this specification. The original cabinet becomes the property of the contractor.

The city reserves the right to perform its own tests on the traffic signal cabinet at any time using the city's control equipment. Should an individual traffic signal cabinet be found to not meet the requirements of these specifications, the contractor shall pick up the traffic signal cabinet from the city or from the field, perform at their shop repairs / revisions as necessary to bring the traffic signal cabinet into conformance with these specifications, and deliver the repaired / revised traffic signal cabinet back to the designated location, all at no additional cost to the city.

M Certification

Provide a written certification with the cabinet delivery that the equipment meets the requirements of the plans and specifications and will fully run the sequence of operation and the signal timing, including closed loop system operation if applicable. The certification shall be on the contractor's company letterhead, shall be addressed to both the department and the construction contractor, and shall be signed by a company officer authorized to legally obligate the company.

N Warranty

Provide a manufacturer warranty and guarantee statement which stipulates that the cabinet and all supplied equipment, including add-on accessory items, to be, individually and as a cabinet system, free from defects in materials and workmanship for a period of at least two years from the date of cabinet installation and acceptance in the field, or in the case of a cabinet that is not installed in the field, from the date of delivery of an accepted cabinet to the City of Hudson. Delivery of a cabinet for testing does not constitute acceptance of the cabinet. Turn over to the City of Hudson warranties and guarantees that are offered by the manufacturer as a customary trade practice. Name the city as the obligee on all manufacturers' warranties and guarantees. Shipping costs, both to the factory or an Authorized Repair Depot, and return, shall be paid by the contractor.

The warranty shall provide for full repair or replacement, as determined by the City of Hudson, of the failed item or cabinet system, including removal and installation, at no cost to the city. Contractor warranty service response times after notification by the city:

- 4 hours to have qualified service personnel on site at the intersection.
- 12 hours to have the signal safely operational, including all phases and enough detection to run the intersection phasing (minimum 8 detectors).
- 48 hours on business days to restore the signal to full original operations.

If a malfunction in the controller unit, MMU, module, or any auxiliary equipment occurs during the warranty period, the contractor shall, within 24 hours after notification (excluding Saturday and Sunday), furnish and install an identical, programmed, controller unit, MMU, module, or auxiliary equipment, for use while the warranted unit is being repaired or replaced. The isolation of any malfunction during the warranty period shall be the responsibility of the contractor.

The city reserves the right to make repairs to malfunctioning cabinets and equipment that are under warranty, up to and including complete replacement of the cabinet, when in the city's determination the safety of the traveling public is best served. Such repair work will not in any way void or limit the contractor's warranty and guarantee specified above. The city will notify the contractor in writing of the repair. The contractor shall within five business days after notification replace all cabinets, equipment, and supplies used by the city in making repairs, with new parts meeting the requirements of this specification.

If any cabinet has three or more equipment or cabinet system failures, resulting from poor workmanship, within the first six months of operation after city acceptance, an entirely new cabinet exactly matching the existing cabinet shall be furnished and installed in the field by the contractor at no additional cost to the city. Any traffic control, including but not limited to signing, channelizing devices, temporary signals, police control, and flaggers, that becomes necessary as determined by the city in order to safely replace the cabinet, is the full responsibility of the contractor.

Provide, at no additional cost, firmware / software maintenance, problem resolution phone technical support, problem resolution technical support in the supplier's facility, firmware / software patches, and firmware / software upgrades for a minimum of three years. The lead for technical support and primary department contact for support shall be a qualified person employed by the contractor's local office who is personally familiar with the City of Hudson's software and signal operations. Help desks and manufacturer's representatives may be utilized by the lead technical support person as resources but are not acceptable for lead technical support.

Maintain an inventory of the firmware / software version on each controller provided. Notify the City of Hudson's traffic engineer in writing when a firmware / software patch or upgrade is available. The city will direct the contractor when to install the patch or upgrade for each controller. Install the patch or upgrade and provide a usable copy of the patch or upgrade to the city. Alternatively, when requested by the city, provide the patch or upgrade to the city for installation by the city.

O Measurement

Traffic Signal Controller and Cabinet Fully Actuated 8-Phase will be measured as a complete unit of work.

P Payment

Traffic Signal Controller and Cabinet Fully Actuated 8-Phase, will be paid for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.14	Traffic Signal Controller and Cabinet Fully Actuated 8-Phase, STH 35 & Coulee Road	LS

Payment is full compensation for furnishing and installing a complete traffic signal cabinet, including the signal controller and conflict monitor together with cabinet, all required control units, all necessary wiring, switches, and fittings to assure that the controller will perform the functions required in the plans.

102. Emergency Vehicle Preemption System, STH 35 & Coulee Road, Item SPV.0105.15.

A Description

This special provision includes furnishing and installing an emergency vehicle preemption (EVP) system for the permanent traffic signal installation as shown on the plans.

B Materials

The EVP Receivers shall be a GTT Opticom Model #711 or approved equal.

The EVP Processor shall be a GTT Opticom Model #764 Phase Selector or approved equal.

C Construction

Install equipment according to manufacturer's instructions to provide a fully operational system. Make connections in the signal cabinet and program the signal controller according to the preemption sequence in the plans.

Coordinate with the City of Hudson to arrange testing of each receiver and the overall preemption system using city emergency vehicles under realistic conditions. Adjust detectors and other system equipment to provide the specified detection ability.

D Measurement

The department will measure Emergency Vehicle Preemption System, STH 35 & Coulee Road 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.0105.15	Emergency Vehicle Preemption System, STH 35 & Coulee Road.	LS

Payment is full compensation for furnishing and installing the emergency vehicle preemption system, testing and set up, and making the EVP system fully operational.

103. Install State Furnished EVP Detector Heads, STH 35 & Monroe Street, Item SPV.0105.16.

A Description

This special provision describes the transporting and installing of department furnished Emergency Vehicle Preemption (EVP) detector heads on department furnished mounting brackets.

B Materials

Use materials furnished by the department including EVP detector heads and department furnished mounting brackets.

Pick up the department furnished materials at the department's Electrical Unit located at 5009 USH 53 South, Eau Claire, WI 54701. Notify the department's Electrical Field Unit at (715) 577-3854 and make arrangement for picking up the department furnished materials at least five working days prior to picking the materials up.

C Construction

Install the EVP detector heads. Terminate the EVP cable ends at the EVP detector heads as shown on the plans. The department will determine the exact location to ensure the installation does not create a sight obstruction. The department will install the discriminator and card rack in the cabinet.

Notify the department's Electrical Field Unit at (715) 577-3854 upon completion of the installation of the EVP detector heads.

D Measurement

The department will measure Install State Furnished EVP Detector Heads STH 35 & Monroe Street 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.0105.16	Install State Furnished EVP Detector Heads, STH 35 & Monroe Street	LS

Payment is full compensation for transporting and installing of department furnished EVP detector heads and terminating the EVP cable ends at the detector heads.

104. Furnish and Install Video Vehicular Detection System, STH 35 & Coulee Rd/Buckeye St, Item SPV.0105.17.

A Description

Furnish and install video traffic detection system that detects vehicles on a roadway using a multi-sensor detection system that is compatible with the existing City of Hudson ITERIS Vantage Next video detection system. The multi-sensor system shall utilize two different sensors of different technologies, video imaging and radar, to detect and track licensed and unlicensed vehicles at distances over 500 feet (152 meters). The sensor system shall fuse vehicle information from the two sensors to provide highly accurate and precise detection for simultaneous stop bar presence detection, advanced detection, and special or advanced applications.

B Materials

B.1 System Hardware

The multi-sensor detection system (MSDS) shall consist of up to four hybrid video camera/radar sensors, up to two detection processors (DP) capable of processing from one to two sensors each, one Central Control Unit (CCU), shelf-mount form factor, input/output extension modules, video surge suppressors, HDMI monitor and a pointing device, or any combination thereof.

B.2 System Software

The system shall include software that discriminately detects the presence of individual vehicles and bicycles in a single or multiple lane using only the video image. Detection zones shall be defined using only an embedded software application. A monitor a keyboard and a pointing device are used to place the zones on a video image. A minimum of 32 video detection zones and 16 radar detection zones plus 5 trip lines per sensor shall be available.

A separate computer shall not be required to program the detection zones. In addition to creating vehicle and bicycle zones, the system shall automatically define a pedestrian crossing area in front of the stop bar zones. The system shall provide a tracking mechanism that counts pedestrian volume moving within this crossing area, and also determine the average, maximum, and minimum speed of pedestrians moving within this crossing zone. The system shall also provide discrete outputs when pedestrians are in the crosswalk during normal crossing phases (one for each direction of travel) and when a red phase

input has been detected. The system shall also provide a visual indication on the video image that a pedestrian is in the crosswalk.

B.3 Functional Capabilities

B.3.1 Detection Processor (DP) System Interfaces

The DP shall be a single-rack detector card width and provide provision for up to two sensors per DP. It may be possible for the DPs to be embedded in the CCU to provide a single cabinet interface. The following interfaces shall be provided on each video detection processor.

B.3.2 Video Input

Each DP will be supplied with video from the MSDS Sensor via Ethernet cables plugged into the front of the Central Control Unit. The interface connectors shall be RJ-45 type.

B.3.3 Video Lock LED

A LED indicator shall be provided to indicate the presence of the video signal. The LED shall illuminate upon valid video synchronization and turn off when the presence of a valid video signal is removed.

B.3.4 Contact Closure Output

Open collector (contact closure) outputs shall be provided. Four (4) open collector outputs shall be provided for the Detection Processor rack-mount configuration. Additionally, the MSDS shall allow the use of extension modules to provide up to 32 open collector contact closures per sensor input. Each open collector output shall be capable of sinking 30mA at 24VDC. Open collector outputs will be used for vehicle detection indicators as well as discrete outputs for alarm conditions. The DP outputs shall be compatible with industry standard detector racks assignments.

B.3.5 Logic Inputs

Logic inputs such as delay/extend or delay inhibit shall be supported through the appropriate detector rack connector pin or front panel connector in the case of the I/O module. For DPs and extension modules, 4 inputs shall be supported via detector rack interface. The I/O module shall accommodate 8 inputs through a 15-pin “D” connector.

B.3.6 Detection LEDs

Detection status LEDs shall be provided on the front panel. The LEDs shall illuminate when a contact closure output occurs. Rack-mounted video processors shall have a minimum of 4 LEDs. Rack-mounted extension modules shall have 2, 4 or 8 LEDs (depending upon extension module type) to indicate detection. Where the DP’s are integrated into the CCU the detection LEDs shall be displayed virtually on the setup tool.

B.3.7 Test Switches

The front panel of the DP shall have detector test switches to allow the user to manually place vehicle and bicycle calls on each DP output channel. The test switch shall be able to place a momentary call. Where the DP’s are integrated into the CCU the detector test switched shall be activated virtually through the setup tool. Both the DP and EM shall be specifically designed to mount in a standard detector rack, using the edge connector to obtain power, provide contact closure outputs and accept logic inputs (e.g. delay/extend). No adapters shall be required to mount the DP or EM in a standard detector rack and no rack rewiring shall not be required. DP printed circuit boards (PCBs) shall be conformally coated according to Caltrans and NEMA specifications.

B.3.8 On-board Memory

The DP shall utilize non-volatile memory technology to store on-board firmware and operational data.

B.3.9 Firmware Upgrade

The CCU shall enable the loading of modified or enhanced software through either the Ethernet or front-panel USB port (using a USB thumb drive) and without removing or modifying the CCU hardware. The upgrade will affect both the CCU and DP hardware when connected into a single system.

B.3.10 DP and EM Power

The DP and EM shall be powered by 12 or 24 volts DC. DP and EM modules shall automatically compensate for either 12 or 24 VDC operation. DP power consumption shall not exceed 7.5 watts. The EM power consumption shall not exceed 3 watts.

B.3.11 Operating Temperature

The MSDS shall operate satisfactorily in a temperature range from -30° F to +165° F (-34° C to +74° C) and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications.

B.4 MSDS CCU

The MSDS Central Control Unit (CCU) shall be supplied by the MSDS manufacturer.

B.4.1 Hardware

The CCU shall be supplied in two separate form factors. Users may choose one form factor for use within their controller cabinet system:

1. Shelf-Mount format; TS1 version. The CCU shall be able to stand up on available shelf-space within the cabinet. All connections shall be made from the front of the CCU, including connections to separate DPs located within the cabinet.
2. Shelf-Mount format; TS2 version. The CCU shall be able to stand up on available shelf-space within the cabinet. All connections shall be made from the front of the CCU, and no external DPs will be required.

B.4.2 CCU Power

The shelf-mount format CCU shall be powered from a 48V DC power supply. CCU power consumption shall not exceed 150 Watts. The MSDS shall operate satisfactorily in a temperature range from -30° F to +165° F (-34° C to +74° C) and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications. The CCU shall utilize non-volatile memory technology to store on-board firmware and operational data. The CCU shall incorporate surge suppression for each sensor input. The CCU shall be appropriately grounded to the cabinet ground rod using 14 AWG (2.5mm^2) minimum. The CCU shall incorporate power surge suppression both on the input power and on the power supplied to the sensors. The CCU shall be appropriately grounded to the cabinet ground rod using 14 AWG (2.5mm^2) minimum. The CCU shall incorporate power management for the various parts of the MSDS such that if fault conditions are detected the power supply will safely shut down the power to that peripheral.

B.4.3 Interfaces

Extension modules (EM) shall be available to eliminate the need of rewiring the detector rack, by enabling the user to plug an extension module into the appropriate slot in the detector rack to provide additional open collector outputs. The EM shall be available in both 2- and 4-channel configurations. EM configurations shall be programmable from the CCU. A separate I/O module shall also be available having 32 outputs through a 37-pin “D” connector on the front panel and 8 inputs through a 15-pin “D” connector using an external wire harness for expanded flexibility. The CCU shall provide four ports for connection to sensors. The sensors may be any combination of MSDS Sensor or VDS Camera Sensor. The connector shall be an RJ-45 type. The CCU shall provide four ports for connection to DPs. The connector shall be an RJ-45 type. These connectors will not be required for the Shelf-Mount TS2 version CCU. The CCU shall provide 2 USB ‘A’ ports on the front panel of the rack mount CCU unit. These ports can be utilized for various functions. For example, keyboard and mouse functions during system configuration, USB storage devices can be utilized for bin data and video collection. The USB ports shall not require special mouse software drivers. The USB ports shall be used as part of system setup and configuration. The CCU shall provide an output to a monitor. The port shall be HDMI. The native resolution of the monitor port shall be 1024 x 768.

B.4.4 Communications

An Ethernet communications port shall be provided on the front panel. The Ethernet port shall be compliant with IEEE 802.3 and shall use a RJ-45 type connector mounted on the front panel of the CCU. The Ethernet communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information. The interface protocol shall be documented, or interface software shall be provided. Each MSDS shall have the capability to be IP addressable. The DP shall support data rates of up to100Mbps. The CCU shall provide an SDLC connection to the Traffic Controller. The connector shall be a ‘D-15’ type, in compliance with NEMA TS-2 specifications. The CCU shall provide an indicator when the SDLC port is active. The CCU shall provide an indicator when the unit has power. The CCU shall provide an indicator when the unit is on line. The CCU shall provide a Wi-Fi connection. The connection shall be over a standard 2.4GHz connection. The Wi-Fi connection shall be enabled and disabled by a switch on the CCU. The CCU shall provide an indicator when the Wi-Fi connection is active. The CCU shall provide a connection for a removable antenna. The antenna

connection shall be a SMA Male type. The CCU shall provide system status via an on-board Organic Light Emitting Diode display. The display shall indicate various system parameters, such as sensor health and DP health, firmware version and sensor air temperature. The display will be enabled with a switch on the CCU. The display will automatically disable 15 minutes after the button is pressed.

B.5 MSDS Sensor

The MSDS sensor shall be supplied by the MSDS manufacturer and consist of two components; a camera sensor and a radar sensor. The MSDS sensor shall utilize a single shielded CAT5E or CAT6 cable for power, communications and video. Cable termination at the camera shall not require crimping or special tools. The cable termination shall only require a standard wire stripper and a screw driver. No connectors (e.g. BNC) shall be allowed. An optional RJ45 direct connector shall be made available if a user chooses to connect the sensor cable with RJ45 connections at the sensor.

B.5.1 Camera Sensor

The camera sensor shall allow the user to set the focus and field of view of the camera imager via the MSDS software. Sensor control from the controller cabinet shall communicate over a single Cat-5e or CAT6 cable. No additional wires shall be required. The camera imager shall produce a useable video image of the features of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.003 lux to 10,000 lux. The camera imager electronics shall include automatic gain control (AGC) to produce a satisfactory image at night for the MSDS algorithms. The camera imager luminance signal to noise ratio (S/N) shall be more than 50 dB with the automatic gain control (AGC) disabled. The camera imager shall employ three dimensional dynamic noise reduction (3D-DNR) to remove unwanted image noise. The camera imager shall employ wide dynamic range (WDR) technology to compensate for wide dynamic outdoor lighting conditions. The dynamic range shall be greater than 100 dB. The camera imager shall be digital signal processor (DSP) based and shall use a CCD sensing element and shall output color video with resolution of not less than 540 TV lines. The color CCD imager shall have a minimum effective area of 811(h) x 508(v) pixels.

The camera imager shall include an electronic shutter control based upon average scene luminance and shall be equipped with an auto-iris lens that operates in tandem with the electronic shutter. The electronic shutter shall operate between the range of 1/60th to 1/90,000th second.

The camera imager shall utilize automatic white balance. The camera imager shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier. The horizontal field of view shall be adjustable from 4.5 to 48 degrees. The sensor camera lens shall be a 12x zoom lens with a focal length of 3.5mm to 35mm. The sensor lens should yield a rectilinear image. The sensor camera lens shall also have an auto-focus feature with a manual override to facilitate ease of setup. The sensor shall incorporate the use of preset positioning that store zoom and focus positioning information. The sensor shall have the capability to recall the previously stored preset upon application of power. The camera imager shall be housed in a weather-tight sealed enclosure. The housing shall allow the sensor camera to be rotated to allow proper alignment between the sensor camera and the traveled road surface. The sensor camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera sensor's field of view. The camera sensor enclosure with sunshield shall be less than 3.5" (89mm) diameter, less than 5.25" (133mm) long, and shall weigh less than 2.5 pounds (1.14kg) when the camera and lens are mounted inside the enclosure. The enclosure shall be designed so that the pan, tilt and rotation of the camera sensor assembly can be accomplished independently without affecting the other settings.

B.5.2 Camera Lens

The camera sensor enclosure shall include a proportionally controlled Indium Tin Oxide (ITO) lens coating for the heating element of the front glass that maximizes heat transfer to the lens. The output power of the heater shall vary with temperature, to assure proper operation of the lens functions at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The transparent coating shall not impact the visual acuity and shall be optically clear. The glass face on the front of the camera sensor enclosure shall have an anti-reflective coating to minimize light and image reflections.

When mounted outdoors in the enclosure, the camera sensor shall operate satisfactorily in a temperature range from -30° F to +140° F (-34 °C to +60 °C) and a humidity range from 0% RH to 100% RH. Measurement of satisfactory video shall be based upon DP system operation.

B.5.3 Radar Sensor

The radar sensor shall operate in the 24 GHz frequency band and shall operate on 1 of 7 available enumerated channels that is user selectable. The radar detection range shall be over 500 feet (152 meters) minimum, +/- 5%. The radar sensor shall be able to track up to 64 independent objects simultaneously. Object speed detection shall be within a range of 0 to 150 miles per hour +/- 1.0 miles per hour (240 km per hour ± 1.5 km per hour). The radar sensor shall be able to detect vehicles in 1 to 6 traffic lanes. The radar sensor shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications. The housing shall allow the radar to be adjusted to allow proper alignment between the sensor and the traveled road surface. When mounted outdoors in the enclosure, the radar shall operate in a temperature range from -30 ^{o}F to +165 ^{o}F (-34 °C to +74 °C) and a humidity range from 0% RH to 100% RH. The radar sensor shall communicate with the sensor data combiner. The radar sensor shall acquire its power from the sensor data combiner. Both camera imager and radar sensors shall be housed in an overall, single enclosure assembly. The overall size of the multi-sensor enclosure shall not exceed 14 inches x 15 inches x 17 inches (355mm x 380mm x 430mm). The overall weight of the multi-sensor unit shall not exceed 11 pounds (5kg). The effective projected area (EPA) shall not exceed 2.0 square feet (0.6 square meters). The maximum power consumption for the multi-sensor assembly shall be less than 10 watts typical, 20 watts peak. Recommended sensor placement height shall be 33 feet (or 10 meters) above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the MSDS sensor should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet (107 meters) for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier. The video signal shall be fully isolated from the sensor enclosure.

B.5.4 Sensor Data Combiner

A sensor data combiner that combines sensor information from both video and radar sensors shall be employed. The sensor data combiner shall supply primary power to each sensor unit. The sensor data combiner shall facilitate digital communications between the sensor data combiner and each of the sensor units. The sensor data combiner shall get its primary power from DC power sourced from the CCU using outdoor rated, shielded Cat5E or Cat6 cable. The sensor data combiner shall communicate with the detection processor using a single outdoor rated, shielded Cat5E or Cat 6 cable. Both video imaging and radar data shall use the single cable. The sensor data signal shall be fully isolated from the mechanical enclosure. Cable terminations at the sensor data combiner shall not require crimping tools. The sensor data combiner shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications. A weather-proof protective cover shall be provided shall be provided to protect all terminations at the sensor. The sensor assembly shall include a temperature sensor. The sensor will be polled by the MSDS every minute and will supply the current air temperature. The MSDS software will display this information on the On-Screen Display for each sensor.

B.6 VDS Camera Sensor

B.6.1

The VDS camera sensor shall be supplied by the VDS manufacturer. The VDS camera sensor shall utilize a single shielded CAT5E or CAT6 cable for power and video. Cable termination at the camera shall not require crimping or special tools. The cable termination shall only require a standard wire stripper and a screwdriver. No connectors (e.g. BNC) shall be allowed. An optional RJ45 direct connector shall be made available if a user chooses to connect the sensor cable with RJ45 connections at the sensor. The camera sensor shall allow the user to set the focus and field of view via the VDS software. Camera sensor control from the controller cabinet shall communicate over a single Cat5e or CAT6 cable. No additional wires shall be required. The camera shall produce a useable video image of the features of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.003 lux to 10,000 lux. The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night for the VDS algorithms. The imager luminance signal to noise ratio (S/N) shall be more than 50 dB with the automatic gain control (AGC) disabled. The imager shall employ three dimensional dynamic noise reduction (3D-DNR) to remove unwanted image noise. The camera imager shall employ wide dynamic range (WDR) technology

to compensate for wide dynamic outdoor lighting conditions. The dynamic range shall be greater than 100 dB. The camera shall be digital signal processor (DSP) based and shall use a CCD sensing element and shall output color video with resolution of not less than 540 TV lines. The color CCD imager shall have a minimum effective area of 811(h) x 508(v) pixels. The camera shall include an electronic shutter control based upon average scene luminance and shall be equipped with an auto-iris lens that operates in tandem with the electronic shutter. The electronic shutter shall operate between the range of 1/60th to 1/90,000th second. The camera shall utilize automatic white balance. The camera shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier. The horizontal field of view shall be adjustable from 4.5 to 48 degrees. This camera configuration may be used for the majority of detection approaches in order to minimize the setup time and spares required by the user. The lens shall be a 12x zoom lens with a focal length of 3.5mm to 35mm. The sensor lens should yield a rectilinear image. The lens shall also have an auto-focus feature with a manual override to facilitate ease of setup. The camera shall incorporate the use of preset positioning that store zoom and focus positioning information. The camera shall have the capability to recall the previously stored preset upon application of power. The camera shall be housed in a weather-tight sealed enclosure. The housing shall allow the camera to be rotated to allow proper alignment between the camera and the traveled road surface. The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view. The camera enclosure with sunshield shall be less than 3.5" (89mm) diameter, less than 5.25" (133mm) long, and shall weigh less than 2.5 pounds (1.14kg) when the camera and lens are mounted inside the enclosure. The enclosure shall be designed so that the pan, tilt and rotation of the camera assembly can be accomplished independently without affecting the other settings.

B.6.2 Camera Lens

The camera enclosure shall include a proportionally controlled Indium Tin Oxide (ITO) lens coating for the heating element of the front glass that maximizes heat transfer to the lens. The output power of the heater shall vary with temperature, to assure proper operation of the lens functions at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The transparent coating shall not impact the visual acuity and shall be optically clear. The glass face on the front of the enclosure shall have an anti-reflective coating to minimize light and image reflections. The glass face on the front of the enclosure shall include a Titanium Dioxide shelf cleaning coating. When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from -30° F to +140° F (-34 °C to +60 °C) and a humidity range from 0% RH to 100% RH. Measurement of satisfactory video shall be based upon VDP system operation. The camera shall be powered by 48VDC. Power consumption shall be 5 watts typical and 16 watts or less under worst conditions. Recommended camera placement height shall be 33 feet (or 10 meters) above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet (107 meters) for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier. The video signal shall be fully isolated from the camera enclosure. Cable terminations at the camera for video and power shall not require crimping tools. A weather-proof protective cover shall be provided shall be provided to protect all terminations at the camera. No special tooling shall be required to remove or install the protective cap. The camera assembly shall include a temperature sensor. The sensor will be polled by the VDS every minute and will supply the current air temperature. The VDS software will display this information on the On-Screen Display for each camera.

B.7 MSDS Software

B.7.1 General System Functions

Detection zones shall be programmed via an embedded application displayed on a video monitor and a keyboard and a pointing device connected to the CCU. The menu shall facilitate placement of detection zones and setting of zone parameters or to configure system parameters. A separate computer shall not be required for programming detection zones or to view system operation. All programming function shall occur on live video images and radar blips, no snapshots or still images are allowed. The MSDS software shall store up to five completely independent detection zone patterns in non-volatile memory. The MSDS can switch to any one of the five different detection patterns within 1 second of user request via menu selection with the pointing device. Each configuration shall be uniquely labeled and able to be edited by the user for identification. The currently active configuration indicator shall be displayed on the monitor. The MSDS shall detect vehicles and bicycles in real time as they travel across each camera detection zone. The MSDS shall detect vehicles in real time as they travel across each radar detection zone. The DP shall automatically define a pedestrian crossing area, and track pedestrians in real-time as they travel across this pedestrian crossing area in both directions of the camera image. The DP shall count pedestrians moving left-to-right, and right-to-left. The DP shall measure the speed of pedestrians moving left-to-right, and right-to-left, and provide the minimum, maximum, and average speed of the pedestrians per the bin interval. These values shall be displayed on-screen for both directions, and an option shall be provided to the user to turn this on-screen display on or off. This data will be stored in local memory for later retrieval via a remote device. The data will be stored at the Bin Interval set in the system. The VDP shall provide a discrete output when pedestrians are being tracked in the crosswalk. A separate output may be assigned to each direction of pedestrian travel. The VDP shall provide a discrete output when pedestrians are crossing against a red phase. The VDP shall allow up to 4 phase inputs to be assigned to each crosswalk. The MSDS shall accept new detection patterns from an external computer through the Ethernet port when the external computer uses the correct communications protocol for downloading detection patterns. A Windows™-based software designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system. The MSDS shall have the capability to automatically switch to any one of the stored configurations based on the time of day which shall be programmable by the user. The MSDS shall send its detection patterns to an external computer through the Ethernet port when requested when the external computer uses the appropriate communications protocol for uploading detection patterns. The MSDS shall default to a safe condition, such as a constant call on each active detection channel, in the event of unacceptable interference or loss of the video and/or radar signal. The MSDS shall be capable of automatically detecting a low-visibility condition of the camera sensor such as fog and respond by placing all affected detection zones in a constant call mode. A user-selected alarm output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists. An On-Screen Icon will be displayed while the system is in this mode. Up to 32 detection zones per camera input shall be supported and each detection zone must be user-sizeable to suit the site and the desired vehicle detection region. Up to 16 detection zones per radar input shall be supported and each detection zone must be user-sizeable to suit the site and the desired vehicle detection region. Up to 5 trip lines per radar input shall be supported and each trip line must be user-positionable to suit the site and the desired vehicle detection application. The system shall provide a Group output. When a user defined number of vehicles are present in the radar FOV the system shall activate an output. The MSDS shall provide up to 32 open collector output channels per camera and 16 open collector outputs per radar input using one or more extension modules. The MSDS shall provide discrete outputs when pedestrians are being tracked in the crosswalk. An output may be assigned to pedestrians crossing from left to right and a separate output may be assigned to pedestrians crossing from right to left. The MSDS shall provide a discrete output when pedestrians are crossing against a red phase. The MSDS shall allow up to 4 phase inputs to be assigned to each crosswalk. A single video detection zone shall be able to replace multiple inductive loops and the video detection zones shall be OR'ed as the default or may instead be AND'ed together to indicate vehicle presence on a single approach of traffic movement. When a vehicle is detected within a detection zone, a visual indication of the detection shall activate on the video and radar overlay display to confirm the detection of the vehicle for the zone. Detection shall be at least 98% accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon site geometry, sensor placement, camera image quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video

due to sensor location or quality.The MSDS shall provide dynamic zone reconfiguration (DZR). DZR sustains normal operation of existing detection zones when one zone is being added or modified during the setup process. The new zone configuration shall not go into effect until the configuration is saved by the operator. Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system. The RDS shall process the radar signals from each sensor at 50mS intervals. Multiple processors shall process all radar signals simultaneously. The MSDS shall process the video input from each camera sensor at 30 frames per second. Multiple camera processors shall process all video inputs simultaneously. The MSDS shall output a constant call during the background learning period of no longer than 3 minutes. Detection zone outputs shall be individually configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse, extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds.

Up to six detection zones per camera sensor view shall have the capability to count the number of vehicles detected. The count value shall be internally stored for later retrieval through the Ethernet port. The zone shall also have the capability to calculate and store average speed and lane occupancy at user-selectable bin intervals of 10 seconds, 20 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes and 60 minutes. The system shall provide an automatic count function per lane for each movement of vehicles, which includes through moving, right, and left turning vehicles. Once standard detection zones have been configured the system will determine the path of vehicles and begin to track them. The data shall also have the capability to be stored at user-selectable bin intervals of 10 seconds, 20 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes and 60 minutes. The current count will be displayed on the video image. The current count display may be disabled by the user. In addition, any valid detector output may be assigned to the automatic count. For each count the associated detector output will be pulsed for 100mS. In addition to the count type zone, the MSDS shall be able to calculate average speed and lane occupancy for all of the video detection zones independently. These values shall be stored in non-volatile memory for later retrieval. The MSDS shall have an “advance” zone type where raw detection output duration to the traffic controller is compensated for angular occlusion and distance. The MSDS shall employ color overlays on the video output. The MSDS shall have the ability to show controller phase status (green, yellow, or red) for up to 8 phases. These indications shall also be color coded. The user shall have the ability to enable or disable the display of the phase information on the video output.

The MSDS shall have the capability to change the characteristics of a detection zone based on external inputs such as signal phase. Each detection zone shall be able to switch from one zone type (i.e. presence, extension, pulse, etc.) to another zone type based on the signal state. For example, a zone may be a “count” zone when the phase is green but change to a “presence” zone type when the phase is not green. Another application would be zone type of “extension” when the signal phase is green and then “delay” when red. The MSDS software shall aid the user in drawing additional detection zones by automatically drawing and placing zones at appropriate locations with only a single click of the mouse. The additional zone shall utilize geometric extrapolation of the parent zone when creating the child zone. The process shall also automatically accommodate lane marking angles and zone overlaps. The radar sensor shall have the capability to control the output of each radar detection zone based on a minimum or maximum speed. The minimum speed can be set from 0 mph (0 kph) to 249 mph (400 kph). The maximum speed can be set between 1 mph (1 kph) to 250 mph (402 kph). When the user wishes to modify the location of a zone, the MSDS software shall allow the user to move a single zone, multiple zones or all zones simultaneously. When the user wishes to modify the geometric shape of the zone, the MSDS software shall allow the user to change the shape by moving the zone corner or zone sides. On screen zone identifiers shall be modifiable by the user. The user shall be allowed to select channel output assignments, zone type, input status, zone labels or zone numbers to be the identifier. The MSDS shall have the capability to show pedestrian activity in the crosswalk through a visual indication on the video output. The MSDS software shall support bicycle type zones where the zone can differentiate between motorized vehicles and bicycles, producing a call for one but not the other. Bicycle zone types shall only output when a bicycle is detected. Larger motorized vehicles such as cars and trucks that traverse a bicycle zone shall not provide an output. The MSDS software shall provide the ability to assign a separate output channel for bicycle zones to allow traffic controllers to implement special bicycle timing. Placement of bicycle type zones in vehicle lanes shall be allowed. Upon detection of a bicycle, the video output overlay shall indicate active detection as well as providing a unique bicycle detection identifier to visually distinguish bicycle detection versus vehicle detection. Up to six bicycle detection zones per camera view shall have the capability to count the number of bicycles detected in addition to their normal detection function. The count value shall be internally stored for later retrieval through the Ethernet port.

Automatic Traffic Volume Graph

The On-Screen Display shall include an Automatic Traffic Volume graph. This graph will display estimated Vehicles Per Hour (VPH) per movement for each camera view. The graph will display a rolling 24 hour period of VPH.

Occupancy Graph

The On-Screen Display shall include an Occupancy Graph. This graph will display estimated approach occupancy for each camera view. The graph will display a rolling 24 hour period of Occupancy.

Speed Graph

The On-Screen Display shall include a Speed Graph. This graph will display average speed of vehicles through each sensor view for the last Bin Interval. The graph will display a rolling 24 hour period of Speed.

Radar Zone Data Display

Current conditions for the 16 radar zones shall be displayed on the video. The conditions are; un-configured, configured and inactive and configured and active.

Radar Trip Line and Activity Display

Current conditions of the 5 trip lines and any warning flags from the radar shall be displayed on the video.

B.7.2 User Interfaces

This section sets forth the minimum requirements for the MSDS to provide a single point interface to remote and local users. The MSDS shall also have the capability to stream up to four simultaneous video streams over an Ethernet interface. The user interface shall provide capabilities to enable multiple rack-mounted detection processors to be locally and remotely accessed from a single point via an Ethernet connection. The device shall allow the operator to view four videos simultaneously or any one video by controls embedded in the MSDS. Local user access to video detection programming shall be limited to the detection processor unit that is currently being displayed on the monitor. All local programming and setup parameters for the video detection processor shall be user accessible through the interface unit without requiring the user to swap user interface cables between video detection processors. Remote access to the device shall be through the built-in Ethernet port via access software running on a Microsoft Windows based personal computer. A Windows OS remote access firmware shall also be available for remote setup and diagnostics of the interface unit. The MSDS shall support streaming video technology using H.264 standards to allow the user to monitor video detection imagery over the Ethernet interface. Motion JPEG streaming video shall not be allowed. The interface unit shall allow eight independent streams, one from each detection processor, to be transported via Ethernet to four independent streaming video players simultaneously in D1 resolution. The interface shall allow the user to select the resolution of the displayed streamed video. The interface unit shall support the streaming and display of four concurrent streams in D1 resolution. The interface shall allow the user to change the unit's Ethernet network settings of IP address, subnet mask and default gateway. The MSDS shall allow the user to upload new application firmware through the use of the interface, remotely or on-site. A Windows OS based application will be provided to remotely view video streams from the MSDS. An iOS and Android based application shall be available to remotely access each configured MSDS on the agency's network. This application shall allow the user to choose between any number of pre-configured intersection locations. Using the iOS or Android device, the application will allow the user to view live video from any camera at that intersection, including vehicle and bicycle detections in real-time. The application will also allow the user to view individual intersection data, including turning movement counts and occupancy. The application will show each data set in time periods of day, week, or month, and have the capability of turning on or off right, left, and through movement data for turning movement count data. The application will also allow the user to view current system diagnostic data, including the following, but not limited to; individual camera glare and low contrast information, system low contrast, constant call, alarm, reboots, logins, and menu access information. A Windows based PC application shall be available to remotely access each configured MSDS on the agency's network. The application shall allow the user to choose multiple intersection locations to be displayed simultaneously on the screen. Intersections can be displayed in alphanumeric order. Groups of intersections can be configured to be displayed simultaneously to allow the user to monitor particular corridors of detection. Multiple groups may be configured in the application.

C Construction

C.1 Installation

The cable to be used between the sensor and the CCU in the traffic cabinet shall be Cat-5e, shielded, outdoor rated. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. Shielded RJ-45 connectors shall be used where applicable. The Cat-5e cable, RJ-45 connector, stripping and crimping tool shall be approved by the supplier of the video detection system, and the manufacturer's instructions must be followed to ensure proper connection. The detection sensor shall be installed by factory-certified installers as recommended by the supplier and documented in installation materials provided by the supplier. Proof of factory certification shall be provided.

C.2 Warranty

The supplier shall provide a limited three-year warranty on the MSDS. During the warranty period, technical support shall be available from the supplier via telephone within 4 hours of the time a call is made by a user, and this support shall be available from factory-certified personnel or factory-certified installers. During the warranty period, updates to DP software shall be available from the supplier without charge.

C.3 Maintenance and Support

The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the video detection system. These parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale for said parts. The supplier shall maintain an ongoing program of technical support for the video detection system. This technical support shall be available via telephone, or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale for on-site technical support services. Installation or training support shall be provided by a factory-authorized representative and shall be a minimum IMSA-Level II Traffic Signal Technician certified. All product documentation shall be written in the English language.

D Measurement

The department will measure Furnish and Install Video Vehicular Detection System, STH 35 & Coulee Rd/Buckeye St as a single lump sum unit work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.17	Furnish and Install Video Vehicular Detection System STH 35 & Coulee Rd/Buckeye St	LS

Payment is full compensation for furnishing and installing video detection system.

105. Insulation, Item SPV.0165.01.

A Description

This special provision describes furnishing and installing insulation above water or sewer main as shown on the plans and provided by these specifications.

B Materials

Insulation shall be 2-inch thick rigid, extruded polystyrene board insulation with a thermal resistance greater than 5.0 and shall conform to ASTM D2842.

C Construction

Where required, pipes shall be insulated with 4 feet by 8 feet sheets of 2-inch insulation with the narrow side centered over the pipe.

D Measurement

The department will measure Insulation by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Insulation	SF

Payment is full compensation for excavation, placement of material, and backfilling.

106. Remove, Salvage and Reinstall Brick Pavers, Item SPV.0165.02.

A Description

This special provision describes removing, salvaging and reinstalling existing brick pavers at locations identified in the plans.

B Materials

Bedding sand shall be washed free from deleterious or foreign materials, well graded, angular, concrete sand conforming to ASTM C33 with a 3/16 in. maximum aggregate size. If requested by the Engineer, the Contractor will supply a production test.

Joint Filling materials shall be Polymeric Sand:

Manufacturer: Techniseal: Series: HP NextGel polymeric jointing sand; www.techniseal.com (or approved equal)

Aggregate base shall conform to standard spec 305.2 for ¾ inch gradation

C Construction

1. Remove the existing brick pavers in a way that prevents damaging the bricks to the location shown on the plans. If the contractor damages the bricks through its own operations, then the contractor shall replace them at no expense to the department. Store materials in a safe location until they are ready to be reinstalled.
2. Spread and compact aggregate base material in uniform layers not exceeding 4 inches. Compact to 95 percent maximum density. The surface of the aggregate base material should be close-knit to prevent bedding sand from filtering and eroding the base.
3. Spread setting bed sand evenly over prepared aggregate base to a minimum thickness of 1-inch.
4. Dampen and roller compact sand to level and even surface.
5. Screed and scarify top ½-inch of sand.
6. Reinstall salvaged bricks back to the original layout. Excess bricks shall be offered to the property owner. If the property owner does not want the bricks then they must be disposed of off-site.
7. Spread polymeric sand over surface and sweep into joints. Moisten joints and recover with additional sand until firm joints are achieved. Remove excess sand.
8. Tamp and level paver units with mechanical plate vibrator until units are firmly bedded, level and to the correct elevation.
9. Spread sand over surface and sweep into joints.

D Measurement

The department will measure Remove, Salvage and Reinstall Brick Pavers by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.02	Remove, Salvage and Reinstall Brick Pavers	SF

Payment is full compensation for removing the existing bricks, storing, for re-installing salvaged bricks on compacted sand and aggregate base course, and delivery of excess bricks to property owner.

107. Concrete Pavement 5 1/2-Inch, Item SPV.0180.02.

Construct Concrete Pavement 5 1/2-Inch according to standard spec 415 and according to the plan details.

108. Concrete Pavement Repair Doweled, Item SPV.0180.03; Concrete Pavement Replacement Doweled, Item SPV.0180.04; 30” Concrete Centerline Repair, Item SPV.0180.05.

A Description

This special provision describes construction of Concrete Pavement Repair Doweled, Concrete Pavement Replacement Doweled, and 30” Concrete Centerline Repair according to standard spec 415, standard spec 416, and standard spec 710. QMP for these items shall be combined and covered under standard spec 716, as shown on the plans, and hereinafter provided. The repair work will be the final riding surface.

B Materials

B.1 Concrete Mixtures

Supplement standard spec 716.2 with the following:

Concrete mix design shall be the responsibility of the contractor. Provide the concrete mix designs necessary to accommodate the contractor’s operations and contractor scheduling according to the traffic provisions and prosecution and progress provisions included in the plan.

Chloride based accelerators shall be allowed in any concrete mixes that are specifically designed to meet opening strength within six hours or less within the time of placement to accommodate lane restrictions as specified in the contract.

QC slump testing is not required for any concrete mixture that has been approved and has at least 700 lbs of cement per cubic yard.

Random 28-day compressive strength cylinders are not required.

Any chemical admixture(s) to be used, other than air-entraining agents or water reducers from the department’s approved list, must be approved in advance by the engineer. The water-cement ratio of the concrete mixture shall not exceed 0.40.

C Construction

C.1 General

Restrict lane operations as specified in the Traffic Section and the Prosecution and Progress Section. Perform work to cause the least possible inconvenience to traffic. The contractor will be allowed to close one lane in each direction to complete the work.

Prepare the base as specified in standard spec 211 using engineer-approved hand methods. Place the repair to the thickness of the contiguous pavement. In lieu of replacing base that was damaged or removed, the contractor will be allowed to place concrete to fill this area at no additional cost to the department.

C.2 Concrete Repair

Supplement standard spec 416.3.7 and standard spec 416.3.8.2:

Deposit concrete to require as little re-handling as possible, place and consolidate by hand with an immersion type vibrator and strike off and finish flush with adjoining surfaces. Any finished surface within the repair that is an 1/8 inch higher than the adjoining pavement shall be diamond ground to match elevation. Any individual repair that, within its defined boundaries, has any finished surface that is 1/8 inch lower than the adjoining pavement shall be paid at 50% of the bid price within the individual repair or shall be removed and replaced as directed by the engineer at no additional cost to the department. Repair areas greater than 15 feet in length shall meet the Surface Testing and Correction parameters as defined in 415.3.10.

Unless the plans show or the engineer directs otherwise, the department will not require ties to the existing adjoining pavement within repairs that are 15 feet or less in length.

Construct, cure, and protect as specified for concrete pavement repairs in standard spec 416.

C.3 Concrete Replacement

Placement of Concrete Pavement Replacement Doweled shall fall under standard spec 415.3.6 through 415.3.14.

C.4 Opening to Traffic

Concrete Pavement Repair Doweled, Concrete Pavement Replacement Doweled, and 30” Concrete Centerline Repair must attain a minimum compressive strength of 3,000 psi before they can be opened to traffic. The opening strength shall be determined by Maturity Methods, standard spec 502.3.10.1.3.3 or other engineer approved methods. If cylinders are used, the compressive strength shall be measured by testing concrete cylinders cured in the field on top of the slab, under the curing blanket. At least two cylinders shall be tested in determining the attained strength of concrete repairs for the purpose of opening the pavement to traffic. The average of test results for the two cylinders shall be used to determine compliance, except that neither cylinder may be less than 10 percent below the required strength.

If opening is not controlled by maturity methods or cylinders, cores may be substituted.

C.5 Details

Details for the construction of these three items shall fall under SDD “Concrete Pavement Repair and Replacement” and plan details.

D Measurement

The department will measure Concrete Pavement Repair Doweled, Concrete Pavement Replacement Doweled, and 30” Concrete Centerline Repair by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.03	Concrete Pavement Repair Doweled	SY
SPV.0180.04	Concrete Pavement Replacement Doweled	SY
SPV.0180.05	30” Concrete Centerline Repair	SY

Payment is full compensation for removing old pavement and disposing of removed materials; for preparing the base; for providing, curing, and protecting the concrete.

The department will pay separately for the following bid items: Sawing Concrete, Drilled Tie bars, and Drilled Dowel Bars that are anchored into existing pavement.

109. Excess Manhole Depth, Item SPV.0200.01.

A Description

This special provision describes furnishing and installing new sanitary sewer manhole exceeding 8 feet all as shown on the plans, according to the plans and these specifications.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Excess Manhole Depth by taking the top of casting elevation, subtracting the elevation of the lowest invert and subtracting 8 feet to calculate the vertical 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.0200.01	Excess Manhole Depth	VF

Payment is full compensation for furnishing and installing all materials.

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 6 *(number)* TrANS Graduate(s) be utilized on this contract.

2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of $5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 7 *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.

5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

II. RATIONALE AND SPECIAL NOTE

The $5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the $5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

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.*

III. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. *TRANS TRAINING*

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. *APPRENTICESHIP TRAINING*

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.
(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b*)* (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a*)* (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

(1) At time of bid, ALL prime contractors must submit Form DT1506 (Commitment to Subcontract to DBE), and quotes from all DBEs included on the Commitment. Signed Attachments A from DBEs included on the Commitment must be submitted to the DBE Alert email box within 24-hours of the bid closing. If the assigned DBE contract goal is not met, Form DT1202 (Documentation of Good Faith Effort) is due at time of bid. Supplemental DT1202 documentation is due within 24-hours of bid closing submitted to the DBE Alert email box. Any change to DBE commitments thereafter must follow Modification of DBE Subcontracting Commitment (Section 9).

(2) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid Shopping is prohibited.

(3) The contractor must utilize the specific DBE firms listed on the approved Form, DT1506, to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DT1506 that is not performed or supplied by the listed DBE without WisDOT's written consent.

Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's Standard Specifications and Construction Materials Manual. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

(1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

(2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
- § Produce accurate and complete quotes
- § Understand highway plans applicable to their work
- § Understand specifications and contract requirements applicable to their work
- § Understand contracting reporting requirements

(3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx

1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.

b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.

c. **DBE:** Disadvantaged Business Enterprise- for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.

d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal.

e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of Form DT1506, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved Form DT1506, and those submitted after approved commitment with Attachment A.

f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.

g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.

h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.

i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.

j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

2. WisDOT DBE Program Compliance

a. Documentation Submittal

The Commitment to Subcontract to DBE (Form DT1506) and quotes from all DBEs included on the Commitment will be submitted at bid by ALL prime contractors. If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) is due at time of bid. Supplemental DT1202 documentation and signed Attachments A from DBEs included on Form DT1506 are due within 24-hours of bid closing, submitted to the DBE Alert email box.

Naming conventions: When emailing files, use the following language to identify your submission- “Project #, Proposal #, Let date, Business Name, GFE” and “Project #, Proposal #, Let date, Business Name, Attachment A” Email: DBE_Alert@dot.wi.gov

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the Form DT1506, Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

(1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate Form DT1506 and Attachments A to verify the actual DBE percentage calculation. If the DBE commitment is verified, the contract is eligible for award with respect to the DBE commitment.

(2) DBE Goal Not Met

a) If the bidder indicates a bid percentage on Form DT1506 that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through submission of Form DT1202 (Documentation of Good Faith Effort) at the time of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE commitment and evaluate the bidder's good faith efforts submission.

b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:

1. *Approve* the request (adequate documentation of GFE has been submitted)- no conditions placed on the contract with respect to the DBE commitment;

2. *Deny* the request (inadequate documentation of GFE has been submitted)- the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.

c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted to the DBE Office by email at: DBE_Alert@dot.wi.gov. Email naming convention: "Project #, Proposal #, Let date, Business Name, GFE"

3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

(1) Documents that it has obtained enough DBE participation to meet the goal; OR
(2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

Appendix A of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The Department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The Department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

a. Solicitation guidance for Prime Contractors:
   (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.
   (2) As needed, request assistance with DBE outreach and follow-up by contacting the Department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: DBE_Alert@dot.wi.gov
   (3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.

(4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in* Appendix B. Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE firms to do work in a prime contractor's area of specialization.

i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to DBE_Alert@dot.wi.gov

ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C): https://www.bidx.com/wi/main, postal mail, email, fax, and phone.

a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter,* Appendix B. This letter may be included as an attachment to the sub-quote request.

b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.

c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.

iii. Upon request, provide interested DBE firms with adequate information about plans, specifications, and the requirements of the contract by letter, information session, email, phone call, and/or referral.

iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.

v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:

a. Email to all prospective DBE firms in relevant work areas
b. Phone call log to DBE firms who express interest via written response or call
c. Fax/letter confirmation
d. Signed copy of record of subcontractor outreach effort

b. Guidance for Evaluating DBE quotes

(1) Quote evaluation practices required to evaluate DBE quotes:

i. Reasonable Price**:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).

(2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:

i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, ***a discussion*** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.

a In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.

b Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes

are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:

i Compare bid items common to both quotes, noting the reasonableness in the price comparison.

ii Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices.*

c. Requesting Good Faith Effort Evaluation: At the time of bid- if the DBE goal is not met in full, the prime contractor must request alternative Good Faith Effort Evaluation using form DT1202- Documentation of Good Faith Effort. Supplementary documentation of good faith effort that supports the DT1202 submission is due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:

(1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.

(2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

(3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.

(4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.

(5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.

(6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials

(7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Naming conventions: When emailing files, use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, GFE" Email: DBE_Alert@dot.wi.gov

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The Department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved Form DT1506. No contractor, prime or subsequent tier, shall be

paid for completing work assigned to a DBE subcontractor on an approved DT1506 unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE commitment, **they will not be paid for the work**. Any changes to DBE commitment after the approval of Form DT1506 must be reviewed and approved by the DBE Office prior to the change (see Section 9).

4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the Department's decision to deny the bidder's demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the Department's denial notice. The bidder may meet in person with the Department if so requested. Failure to appeal within 5 business days after receiving the Department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The Department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The Department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the Department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The Department's decision is final.

5. Determining DBE Eligibility

Directory of DBE firms

a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx

b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.

c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

6. Counting DBE Participation

Assessing DBE Work

The Department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the UCP agencies. The Department only counts the value of the work a DBE actually performs towards the DBE goal. The Department assesses the DBE work as follows:

a. The Department counts work performed by the DBE firm's own resources. The Department includes the cost of materials and supplies the DBE firm obtains for the work. The Department also includes the cost of equipment the DBE firm leases for the work. The Department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.

b. The Department counts fees and commissions the DBE subcontractor charges for providing bona fide professional, technical, consultant, or managerial services. The Department also counts fees and commissions the DBE charges for providing bonds or insurance. The Department will only count costs the program engineer deems reasonable based on experience or prevailing market rates.

c. If a DBE firm subcontracts work, the Department counts the value of the work subcontracted to a DBE subcontractor.

d. The contractor will maintain records and may be required to furnish periodic reports documenting its performance under this item.

e. It is the Prime Contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.

f. It is the Prime Contractor's responsibility to assess the DBE firm's ability to perform the work for which it is committing/contracting the DBE to do. Note that the Department encourages the Prime Contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.

g. The Prime Contractor will inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.

h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, Attachment A" Email: DBE_Alert@dot.wi.gov

*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

7. Credit Evaluation for Trucking

All bidders are expected to adhere to the Department's current trucking policy posted on the HCCI website at: http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf

See Section 8 for Broker credit.

8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The Department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The Department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer,

supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

a. Manufacturers
   (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
   (2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

b. Regular Dealers of Material and/or Supplies
   (1) Supplies purchased in bulk from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.
   (2) 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.
   (3) 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.
   (4) 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.
   (5) When DBE suppliers are contracted, additional documentation must accompany form DT1506 and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.
      i. The bidder should respond to the following questions and include with submission of form DT1506:
         a. What is the product or material?
         b. Is this item in the prime's inventory or was the item purchased when contract was awarded?
         c. Which contract line items were referenced to develop this quote?
         d. What is the amount of material or product used on the project?

c. Brokers, Transaction Expediters, Packagers, Manufacturers' Representatives
   (1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit. However, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies, or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions.
   (2) Brokerage fees are calculated as **10%** of the purchase amount.
   (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials or supplies required on a job site.

(4) Evaluation of DBE credit includes review of the contract need for the item/service, the sub-contract or invoice for the item/service, and a comparison of the fees customarily allowed for similar services to determine whether they are reasonable.

9. DBE Commitment Modification Policy (Formerly "DBE Replacement Policy")

A. Issuing a Contract Change Order

Any changes or modifications to the contract once executed are considered contract modifications and as such require a change order. In addition, the DBE office must provide consent for reduction, termination, or replacement of subcontractors approved on the DT1506 *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE commitment do not require advance notification of the DBE office. (see D below)

Contractor Considerations

1. A prime contractor cannot modify the DBE commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved 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.

2. If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the Department regarding the DBE utilization.

3. The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal.

4. When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.

5. In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.

6. The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they will advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.

   (a) Before the Prime Contractor can request modification to the approved DT1506, the Prime Contractor must:
   - i. Make every effort to fulfill the DBE commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.
   - ii. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.
   - iii. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.

iv. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. **EXCEPTION:** The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.

v. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

B. Request to Modify DBE Subcontracting Commitment

The written request referenced above may be delivered by email or fax. The request must contain the following:

1. Project ID number
2. WisDOT Contract Project Engineer's name and contact information
3. DBE subcontractor name and work type and/or NAICS code
4. Contract's progress schedule
5. Reason(s) for requesting that the DBE subcontractor be replaced or terminated
6. Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: DBE_Alert@dot.wi.gov + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor
- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required
- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract

C. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE subcontracting commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved Form DT1506 is the DBE Program Engineer who can be reached at DBE_Alert@dot.wi.gov or (608) 264-9528.

D. DBE Utilization beyond the approved DBE Commitment (Form DT1506)

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

a. Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DT1506 based on the email/discussion and the new Attachment A.

b. When adding to an existing DBE commitment, submit a new Attachment A to the DBE Alert mailbox

c. OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, *New* Attachment A" Email: DBE_Alert@dot.wi.gov

Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. $1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting

10. Commercially Useful Function

a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.

b. The Department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.

c. A DBE firm is performing a commercially useful function if the following conditions are met:

(1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.

(2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the Department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The Department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

12. Joint Venture

If a DBE performs as a participant in a joint venture, the Department will only count the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces, for DBE credit.

13. Mentor-Protégé

a. If a DBE performs as a participant in a mentor-protégé agreement, the Department will credit the portion of the work performed by the DBE protégé firm.

b. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.

c. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.

(1) Request should be made when Form DT1506 or when the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
(2) Approval/Permission must be granted prior to the issuance of any joint checks.
(3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
(4) The joint check for supplies must be strictly for the cost of approved supplies.

b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an 'extra participant' in the transaction. The DBE firm's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following:
   (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.
   (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.

c. The Prime contractor/payor acts solely as a guarantor.
   (1) The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.
   (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor's negotiated unit price.

15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

Appendix A
Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

<u>Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released 5 weeks prior to each Let)</u>

- Determine DBE subcontractor's interest in quoting
- If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
- Assess their interest and experience in the road construction industry by asking questions such as:
  1. Have you competed for other WisDOT contracts? Ratio of competed/to wins
  2. Have you performed on any transportation industry contracts (locally or with other states)?
  3. What the largest contract you've completed?
  4. Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
  5. Does this project fit into your schedule? Are you working on any contracts now?
  6. Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
  7. What region do you work in? Home base?
  8. Which line items are you considering?
  9. Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
  10. Do you understand where your work fits in the project schedule, project phases?

<u>Following Bid Opening- this discussion can happen at any time</u>

1. After reviewing their quote, note the following in your discussion:
   - Does the quote look complete? Irregular?
   - Are there errors in the quote? Are items very high or very low?
   - In general, does the quote look competitive?
2. Questions and Advice for the bidder to share with the potential DBE subcontractor:
   - What line items would typically be in a competitive quote for a subcontractor of their specialty?
   - How many employees and what is their role/experience/expertise in your firm?
   - Do you have resources for labor (union member, family-based, community-resourced) and capital (banking relationship, bond agent, CPA)?
   - Where have you worked: cities, states, government, commercial, residential/private sector, etc. Explain similarities or differences.
   - Refer them to reliable, trusted, industry resources that can educate or connect them to relevant resources, education/certification resources, more appropriate contract opportunities.
   - Discussion about prime contract and subcontract liability, critical path items, contract quantities, schedule risks, and potential profit/loss (for upcoming known projects or in general).
   - Discussion of bonding, insurance, and overall business risk considerations.

APPENDIX B
Sample Contractor Solicitation Letter Page 1
This sample is provided as a guide not a requirement

GFESAMPLE 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 http://roadwaystandards.dot.wi.gov/hcci/

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 http://roadwaystandards.dot.wi.gov/hcci/
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 QUOTE

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:	DBE Contractor Contact Person:
Phone:	Phone:
Fax:	Fax:
Email:	Email:

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clearing and Grubbing	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 C
Small Business Network (SBN) Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
    a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for later completion.
2. Create sub-quotes for the subcontracting community:
    a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
    b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
    c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE preferred request.
    d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
    a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
    b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
    a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
    b. Easily locate pre-qualified and certified small and disadvantaged businesses.
    c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
    d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network 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. **DBE firms can:**

1. View and reply to sub-quote requests from primes:
    a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
    a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
    b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes. c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
    a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
    a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
    b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
    c. Add attachments to a sub-quote.
    d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
    a. Receive a confirmation that your sub-quote was opened by a prime.
    b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
    c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
    a. If you are a contractor not yet subscribing to the Bid Express service, go to **www.bidx.com** and select “Order Bid Express.” The Small Business Network is a part of the Bid Express Basic Service.
    b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-458

APPENDIX D

Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications,and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TrANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

GFE EVALUATION RUBRIC – PHASE 1

	Active & Aggressive Category	Quality Category	Quantity Category	Scope & Intensity Category	Timing Category	Business Develop't Efforts	Total=
Solicitation Documentation							
Selected Work Items Documentation							
Documentation of Project Information provided to Interested DBEs							
Documentation of Negotiation with Interested DBEs							
Documentation of Sound Reason for Rejecting DBEs							
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials							
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support							
Documentation of other GFE activities							
Overall Total=							

GFE EVALUATION RATING LEGEND – PHASE 1

ACTIVE & AGGRESSIVE: Demonstrated through engaged and assertive activity
QUALITY: Demonstrated through essential character of conscientious and serious activity
QUANTITY: Demonstrated through a measurable number of activities
SCOPE & INTENSITY: Demonstrated through a rigorous approach to an appropriate and purposeful range of activities
TIMING: Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process
BUSINESS DEVELOPMENT INITIATIVES: Demonstrated by efforts to support business growth and health of DBEs

Rating Scale

- **Each qualifying activity is worth 5 points per Category**
- **Documented efforts must receive 55 points or more to qualify for Phase 2 GFE evaluation**
  - **Pro Forma efforts= 0-50 points**
    Perfunctory effort characterized by routine or superficial activities
  - **Bona Fide= 55+ points**
    Genuine effort characterized by sincere and earnest activities

GFE EVALUATION – PHASE 2

DBE Office completes:

- Review of quote comparisons submitted by Prime
- Bid analysis to confirm if any bid submitted met the DBE goal
- Review average of other bidders DBE goal achievement
- Team review of combined efforts documented in Phase 1 and 2 by apparent low bidder

Excerpt from Appendix A to 49 CFR Part 26:

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)((vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

APPENDIX E
Good Faith Effort Best Practices

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 be thorough 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 F
Good Faith Effort Evaluation Guidance
Appendix A of 49 CFR Part 26

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, Part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, you have the responsibility to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made, based on the regulations and the guidance in this Appendix.

The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call. Determinations should not be made using quantitative formulas.

III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. (1) Conducing market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

(2) The bidder should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder should determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract.

D. (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

(2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

E. (1) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

(2) A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.

G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)((vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

VI. A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

[79 FR 59600, Oct. 2, 2014]

APPENDIX G
(SAMPLE) Forms DT1506 and DT1202

COMMITMENT TO SUBCONTRACT TO DBE

Wisconsin Department of Transportation

DT1506 6/2020 s.84.06(2) Wis. Stats.

Project(s):

Prime Contractor:

County:

Letting Date:

This contract requires that a specified percentage of the work be subcontracted to a disadvantaged business enterprise and that this information be submitted as described in ASP-3. Completion of the following information indicates your intent in the fulfillment of these contract requirements.

Total Value of Prime Contract:

DBE Contract Goal %:

DBE Contract Goal $: $ -

Goal met

This form must be completed and returned for THIS contract. See reverse side for instructions.

A	V	NAME OF DBE SUBCONTRACTOR	TYPE OF WORK	SUBCONTRACT $ VALUE	Government Use Only Adjusted Amounts

SUBTOTAL DBE $ VALUE	A ($)	$ -	TOTAL %	#DIV/0!	
	V ($)	$ -	TOTAL %	#DIV/0!	

A	V	NAME OF DBE SUPPLIER AND/OR MANUFACTURER (see #3 on Instructions)	TYPE OF MATERIAL	SUBCONTRACT $ VALUE	Government Use Only Adjusted Amounts

SUBTOTAL DBE $ VALUE	A ($)	$ -	TOTAL %	#DIV/0!	
	V ($)	$ -	TOTAL %	#DIV/0!	

A	V	NAME OF DBE TRUCKING FIRM	MATERIAL HAULED	EST. # OF TON/C.Y.	EST. # OF TRUCKS REQ'D	$ VALUE	Government Use Only Adjusted Amounts
					O= L=		
					O= L=		
					O= L=		
					O= L=		
					O= L=		

	A ($)	$ -	TOTAL %	#DIV/0!	
SUBTOTAL DBE $ VALUE	V ($)	$ -	TOTAL %	#DIV/0!	
	A ($)	$ -	TOTAL %	#DIV/0!	
GRAND TOTAL DBE $ VALUE	V ($)	$ -	TOTAL %	#DIV/0!	
	T =	$ -	TOTAL %	#DIV/0!	

I certify that arrangements have been made for the foregoing work with the listed DBE Contractors. I further understand that any willful falsification, fraudulent statement or misrepresentation will result in appropriate sanctions, which may include debarment and/or prosecution under applicable State (Trans 504) and Federal laws.

O = Owned Trucks Used on Project
L = Leased Trucks Used on Project

A = Assigned (DBE Conscious)
V = Voluntary (DBE Neutral)

Government Use Only Approved Amounts			
A	$		%
V	$		%
Total	$		%
Signature:			
Date:			
DBE goal waiver granted: Yes		No	

X

(Authorized Agent)

Date

Preferred submission method: DBE_Alert@dot.wi.gov
Or:
Mail to: Wisconsin Department of Transportation
DBE Programs Office, 5th Floor
PO Box 7986
Madison,WI 53707-7986

Proposal Number :

Instructions For Completing Commitment To Subcontract To DBE Form:

1. In accordance with the DBE Regulations (49 CFR part 26), WisDOT is tracking Assigned Goals for DBE's (DBE Conscious) and Voluntary Usage of DBE Firms (DBE Neutral). DBE participation reported on this form will be used to periodically adjust (DBE Conscious and DBE Neutral) components of WisDOT's overall annual DBE goal.

2. For each DBE firm listed on this form, place an "x" in the appropriate column to indicate whether it will be used to meet the Assigned Goal (A) and/or whether it is used on a Voluntary basis (V). Any achievement above assigned goals should be reported as a voluntary achievement. If you indicate that a firm will be used to meet both assigned and voluntary goals, indicate the dollar amount attributable to assigned goals and the amount attributable to the voluntary goal. Our objective is to capture all DBE achievement you generate. The following is an example:
   a. The total contract amount is $100,000 and the DBE goal is 10% or $10,000 in DBE participation
   b. If $10,000 is the subcontract dollar value to ADBE Landscaping Co. then $10,000 would be Assigned (DBE Conscious) and you would place an "x" in the "A" column
   c. If $15,000 is the subcontract dollar value to ADBE Landscaping Co. then $10,000 would be Assigned (DBE Conscious) and you would place an "x" in the "A" column and ADBE Landscaping Co. would be listed on the next line for $5,000 which would be Voluntary (DBE Neutral) and an "x" would be placed in the "V" column

3. The department will give full credit toward the DBE goal if the DBE is a manufacturer of their materials or supplies. The department will give 60 percent credit or brokerage fee set by industry's standard toward the DBE goal if the DBE is merely a supplier of these materials or supplies. Drop shipment by a supplier will earn a 10 percent DBE credit. It is the Prime Contractor's responsibility to use the Bidder's List or UCP Directory to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form. WisDOT will apply the appropriate credit when approving the form.

4. After completing the form, if it does not indicate that the DBE goal has been met or exceeded, please complete and supply the necessary documentation on the Documentation of Good Faith Effort form (DT1202)

Instructions For Completing Attachment A Form:

5. Section 26.53 (49 CFR part 26) requires written confirmation of participation from each DBE firm to be used on the contract. Please submit one copy of a completed Attachment A, Confirmation of Participation form, for each DBE firm to be used on this contract. Each form must be signed by the Prime Contractor, the hiring contractor (if applicable) and the DBE Firm specified on the form.

6. DBE crediting for the trucking industry is achieved in the following manner:
   a. A minimum of one truck owned by the DBE must be used on the contract.
   b. Full DBE credit is given for owned trucks and trucks leased from another DBE.
   c. Trucks leased from non-DBE firms will be given DBE credit of 10% of the subcontract value.
   d. All trucks used for credit must be listed and approved on the DBE firm's Schedule of Owned/Leased Vehicles for DBE Credit and/or a WisDOT approved trucking utilization plan.

   It is the Prime Contractor's and the DBE firm's responsibility to ensure that utilization of trucks and the DBE credit earned is in accordance with the above and will yield the subcontract dollar value listed on the Commitment to Subcontract to DBE form.

Please submit documents to: DBE_Alert@dot.wi.gov

Identify Project#, Proposal#, Let date, Business Name, DT1506 and/or Attachment A in the **email subject line.**

If you have questions about filling out these forms, please contact the Civil Rights and Compliance Office at (608) 266-0503.

COMMITMENT TO SUBCONTRACT TO DBE
ATTACHMENT A

CONFIRMATION OF PARTICIPATION

Project I.D.:		Proposal Number:	
Letting Date:		Total $ Value of Prime Contract:	

Name of DBE Firm Participating in this Contract:
Name of the Prime/Subcontractor who hired the DBE Firm: *(list all names of tiers if more than one)*
Type of Work or Type of Material Supplied:
Total Subcontract Value:

FOR PRIME CONTRACTORS ONLY: I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.	Prime Contractor Representative's Signature
	Prime Contractor Representative's Name (Print Name)
	Prime Contractor (Print Company Name)
	Date

FOR PARTICIPATING DBE FIRMS ONLY: I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above. **FOR DBE TRUCKING FIRMS ONLY:** I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks and material hauled as listed below.	Participating DBE Firm Representative's Signature
	Participating DBE Firm Representative's Name (Print Name)
	Participating DBE Firm (Print Company Name)
	Date

# Owned Trucks	# Leased Trucks	# Estimated Tons/C.Y.	Material(s) Hauled

Official Form DT1506 can be found here: www.wisconsindot.gov/DBEcontracting

DOCUMENTATION OF GOOD FAITH EFFORT

Wisconsin Department of Transportation
DT1202 3/2020

Project ID	Proposal No.	Letting
* * * * *	* * * * *	* * * * *
Prime Contractor		County
* * * * *		* * * * *
Person Submitting Document		Telephone Number
* * * * *		* * * * *
Address		Email Address
* * * * *		* * * * *

All bidders must undertake necessary and reasonable steps to achieve the assigned DBE contract goal per federal regulatory guidance at 49 CFR Part 26. Bidders use this form to document all efforts employed to meet the assigned goal as a record of contractor good faith efforts (GFE). Refer to ASP3 or 49 CFR Part 26 for guidance on actions that demonstrate good faith effort.

It is critical to list all efforts, attach documentation, and follow the instructions to complete this submission. Documentation of good faith effort includes copies of each DBE and non-DBE subcontractor quote submitted to the bidder for the same line items. Utilize the sample documentation logs to document and organize efforts.

Submit good faith effort documentation per ASP-3 guidelines.

Instructions: Provide a narrative description of all activities pursued to demonstrate good faith efforts, any corresponding documentation, and applicable explanation on separate pages. Include the following items, organized in the order listed below.

1. **Solicitation Documentation:**
   - a. **Purpose:** To identify all reasonable and available activities the bidder performed to solicit the interest of all certified DBEs who have the capacity and ability to perform work on the project. All solicitation efforts should begin as early as possible to ensure DBEs have ample time to respond and ask questions.
   - b. **Action:** Identify and list all activities engaged in to solicit DBEs using all reasonable and available means such as written notice and follow-up communications; substantive conversations; pre-bid meetings; networking events; market research; advertising.
2. **Selected Work Items Documentation:**
   - a. **Purpose:** To ensure that all work items are broken out into economically feasible units to facilitate DBE participation. This must occur even when you prefer to perform the work yourself.
   - b. **Action:** Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.
3. **Documentation of Project Information provided to Interested DBEs:**
   - a. **Purpose:** To provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.
   - b. **Action:** Provide DBEs access to plans, specifications, and other contract requirements. Early solicitation allows ample opportunity to provide project information, links to Let advertisements, and substantive engagement with DBEs.

4. **Documentation of Negotiation with Interested DBEs:**
   a. **Purpose:** To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

   b. **Action:** Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

5. **Documentation of Sound Reason for Rejecting DBEs:**
   a. **Purpose:** To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

   b. **Action:** Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

6. **Documentation of Assistance to Interested DBEs - Bonding, Credit, Insurance, Equipment, Supplies/Materials:**
   a. **Purpose:** To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

   b. **Action:** Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

7. **Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:**
   a. **Purpose:** To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

   b. **Action:** Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:
Wisconsin Department of Transportation
DBE Program Office
PO Box 7965
Madison, WI 53707-7965
DBE_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

		(Bidder/Authorized Representative Signature)
		*****
		(Print Name)
		*****
		(Title)

Good Faith Effort -- Sample Documentation Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote

SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email, left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: www.wisconsindot.gov/DBEcontracting

ADDITIONAL SPECIAL PROVISION 4

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor is not allowed to withhold retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Additional Special Provision 6
ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

102.1 Prequalifying Bidders

Replace paragraph two with the following effective with the October 2020 letting:

(2) Furnish a dated prequalification statement on the department's form at least 10 business days before the time set for the letting to close.

102.6 Preparing the Proposal

Replace the entire text with the following effective with the October 2020 letting:

102.6.1 General

(1) Submit completed proposals on the department's bidding proposal described in 102.2. Submit legible information only. Write everything in ink, by typewriter, or by computer-controlled printer. Provide all dollar amounts in dollars and cents, in numerals. Attach all addenda to the submitted proposal.

(2) Properly execute the proposal. Place the required signatures, in ink, in the space provided on the bidding proposal as indicated below:

ENTITY SUBMITTING PROPOSAL	REQUIRED SIGNATURE
Individual	The individual or a duly authorized agent.
Partnership	A partner or a duly authorized agent.
Joint venture	A member or a duly authorized agent of at least one of the joint venture firms.
Corporation	An authorized officer or duly authorized agent of the corporation. Also show the name of the state chartering that corporation and affix the corporate seal.
Limited liability company	A manager, a member, or a duly authorized agent.

(3) Instead of using the schedule of items provided on the department's bidding proposal, the bidder may submit a substitute schedule with the proposal. Use a format for the substitute schedule conforming to the department’s guidelines for approval of a bidder-generated schedule of items. Obtain the department’s written approval before using a substitute schedule.

(4) Provide a unit price for each bid item listed in the schedule of items. Calculate and show, in the bid amount column, the products of the respective unit prices and quantities. For a lump sum bid item, show the same price in the unit price column and in the bid amount column pertaining to that bid item. Show the total bid obtained by adding the values entered in the bid amount column for the listed bid items.

(5) If a unit price or lump sum bid already entered in the proposal needs to be altered, cross out the entered unit price or lump sum bid with ink or typewriter and enter the new price above or below and initial it in ink.

(6) A change that the bidder makes in the proposal is not an alteration if the bidder makes that change as directed in a specific instruction contained in an addendum.

102.6.2 Disadvantaged Business Enterprise (DBE) Commitment

(1) Before the letting is closed, submit the following documentation for proposals with a DBE goal:

1. Commitment to subcontract to DBE on department form DT1506.
2. Attachment A for each subcontractor listed on the DT1506.
3. If the DBE goal is not attained, certificate of good faith efforts on department form DT1202.

(2) Within 24 hours after the letting is closed, email all supplemental documentation for the DT1202 verifying efforts made to attain the DBE goal to DBE_Alert@dot.wi.gov.

102.7.3 Department Will Reject

Replace paragraph one with the following effective with the January 2021 letting:

(1) Proposals are irregular and the department will reject and will not post them if the bidder:

1. Does not furnish the required proposal guaranty in the proper form and amount as specified in 102.8.
2. Does not submit a unit price for each bid item listed, except for lump sum bid items where the bidder may show the price in the bid amount column for that bid item.
3. Includes conditions or qualifications not provided for in the department-supplied bidding proposal.
4. Submits a bid on a bidding proposal issued to a different bidder without obtaining departmental authorization to do so.
5. Submits a bid that contains unauthorized revisions in the name of the party to whom the bidding proposal was issued.
6. Submits a schedule of items with illegibly printed bid item numbers, descriptions, or unit prices.
7. Submits a schedule of items for the wrong contract.
8. Submits a bidder-generated schedule of items with an incorrect bid item number and incorrect description for a single bid item.
9. Omits a bid item or bid items on a bidder-generated schedule of items.
10. Submits a materially unbalanced bid.
11. Does not sign the proposal.
12. Does not submit the DBE forms and required supplemental documentation of the good faith efforts as specified in 102.6.2.

102.12 Public Opening of Proposals

Replace paragraph one with the following effective with the October 2020 letting:

(1) The letting will close at the time and place indicated in the notice to contractors. The department will publicly open and post the total bid for each proposal on the Bid Express web site beginning at noon on the day after the letting is closed except as specified in 102.7.3 and 102.8. If a proposal has no total bid shown, the department will not post the bid. After verification for accuracy under 103.1, the department will post bid totals on the HCCI web site.

https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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103.1 Consideration of Proposals

Replace paragraph one with the following effective with the October 2020 letting:

(1) Following the public opening of the proposals received, the department will compare them based on the summation of the products of the quantities of work listed and the contract unit prices offered. In case of discrepancies, errors, or omissions, the department will make corrections as specified in 102.7.1. In awarding contracts, the department, in addition to considering the amounts stated in the proposals, may consider one or more of the following:

1. The responsibility of the various bidders as determined from a study of the data required under 102.1.
2. The responsiveness of the bid as determined under 102.6.
3. Information from other investigations that the department may make.

107.17.1 General

Replace paragraph four with the following effective with the November 2020 letting:

(4) Comply with the railroad's rules and regulations regarding operations on or near the railroad right-of-way as follows:

- When working on the railroad right-of-way.
- When working within 25 feet of the track centerline or adjacent facilities, including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities.

If the railroad's chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and pay the railroad directly. Notify the railroad's representative, specified in the project special provisions, in writing at least 40 business days before starting work near a track. Provide the specific time planned to start the operations.

109.6.3.3 Retainage

Delete paragraph two effective with the December 2020 letting:

450.2.1 Acronyms and Definitions

Add the following definitions to 450.2.1(2) effective with the November 2020 letting:

Butt Joint	A transverse joint between existing and newly paved surfaces, formed by milling or sawing a vertical notch into the existing surface and then paving against the notch.
Echelon Paving	Paving two or more adjacent lanes with adjacent pavers offset from each other by 200 feet or less.
Notched Wedge Joint	A longitudinal joint consisting of a wedge placed at the edge of the initially paved lane with an overlapping wedge placed on the subsequent lane.
Tandem Paving	Paving two or more adjacent lanes with adjacent pavers offset from each other by more than 200 feet.
Vertical Joint	A longitudinal joint between 2 paved lanes with a vertical or nearly vertical interface between the adjacent mats.

450.3.2.8 Jointing

Replace paragraph two with the following with the November 2020 letting:

(2) Where placing against existing HMA pavement, saw or mill the existing mat to form a full-depth joint.

Replace paragraphs five and six with the following effective with the November 2020 letting:

(5) At the prepave meeting, submit documentation to the engineer that includes the brand name and model of each extruding and compacting device proposed for notched wedge joint construction. Alternatively, submit pictures of fabricated wedging and compacting devices. Do not use devices before engineer approval.

(6) For notched wedge joints, construct and shape the wedge for each layer using the engineer-approved extruding device and compacting device that will provide a uniform slope and will not restrict the main screed. Compact the wedge with a weighted roller wheel or vibratory plate compactor the same width as the wedge. Clean and apply tack coat to the wedge surface and both notches before placing the adjacent lane.

(7) For butt and vertical joints, clean and apply tack coat to promote bonding and seal the joint.

(8) If paving in echelon, the contractor may use a vertical or notched wedge joint. Joints paved in echelon need not be tack coated.

460.2.2.3 Aggregate Gradation Master Range

Replace table 460-1 with the following effective with the November 2020 letting:

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.

522.2 Materials

Replace paragraph three with the following effective with the January 2021 letting:

(3) Manufacture precast reinforced concrete pipe, cattle pass, and apron endwalls in a plant listed under precast concrete fabricators on the APL. Conform to the specified AASHTO standard materials requirements except as follows:

- The contractor may use cement conforming to 501.2.1 or may substitute for portland cement at the time of batching conforming to 501.2.6 for fly ash, 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 percent of the total cementitious content by weight.

532.2.1 General

Replace paragraph one with the following effective with the November 2020 letting:

(1) Furnish structural steel conforming to ASTM as follows:

<= 1/2 inch thick structural tube and pipe ..... ASTM A500 grade C

> 1/2 inch thick structural tube and pipe ..... API 5L PSL 2 grade 46 or ASTM 1085

Tapered vertical supports ..... ASTM A595 grade A or ASTM A572 grade 55

Multi-sided or greater than 26-inch diameter round tapered poles ..... ASTM A572 grade 65

Structural angles and plates ..... ASTM A709 grade 36

532.3.8 Acceptance and Inspection

Add the following new subsection effective with the November 2020 letting:

532.3.8 Acceptance and Inspection

(1) Demonstrate to the engineer that electrical and mechanical systems for each high mast tower installation are fully operational. The department will not accept an installation until the engineer is satisfied that it functions properly.

(2) Inspect completed "S" or "L" designated structures before opening to public traffic conforming to the BOS structure inspection manual part 4 for sign, signal, and high mast towers available at:

https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/inspection-manual.aspx

Ensure that a department-certified active team leader for sign/signal inspections, listed on the department's highway structures information system (HSIS) website, performs inspections. Conform to the following:

- Notify the engineer at least 5 business days before inspection.
- Ensure that the team leader performing inspections submits the signed inspection reports and provides punch list items as maintenance items in the inspection report to the engineer within one business day after completing each inspection. Submit that signed final inspection report to the engineer and HSIS at:

  https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/hsi.aspx
- Notify the engineer and region ancillary structure project manager upon completion of the punch list items.

550.2.1 Steel Piles and Pile Shells

Replace paragraph three with the following effective with the November 2020 letting:

(3) For steel pipe sections and steel pile shells for cast-in-place concrete piles, use ASTM A252 grade 3 steel.

608.2.1 Pipe

Replace paragraph three with the following effective with the January 2021 letting:

(3) Manufacture precast reinforced concrete pipe for storm sewer in a plant listed under precast concrete fabricators on the APL. Conform to the specified AASHTO materials requirements for the class of precast concrete pipe specified except as follows:

- The contractor may use cement conforming to 501.2.1 or may substitute for portland cement at the time of batching conforming to 501.2.6 for fly ash, 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 percent of the total cementitious content by weight.

611.2 Materials

Replace paragraph three with the following effective with the January 2021 letting:

(3) For precast structures conform to AASHTO M199 for circular structures and ASTM C913 for square and rectangular structures. Manufacture in a plant listed under precast concrete fabricators on the APL. Conform to the specified AASHTO materials requirements for the structure specified except as follows:

- Use concrete with 470 pounds or more cementitious material per cubic yard.
- The contractor may use cement conforming to 501.2.1 or may substitute for portland cement at the time of batching conforming to 501.2.6 for fly ash, 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 percent of the total cementitious content by weight.
- For wet cast use air-entrained concrete with 7.0 percent +/- 1.5 percent air content.

614.3.2.1 Installing Posts

Replace paragraphs four and five with the following effective with the December 2020 letting:

(4) For bid items 614.0220, 0230, and 2500; do not trim posts before installation and mark one face of each post as follows:

- Draw an embedment depth line.
- Above the embedment line, write the post length.
- Posts 3 through 8 of bid item 614.0220 do not require marking.

Install posts with the markings on the roadway side. Ensure the markings remain on the posts until guardrail final acceptance.

(5) Ensure that posts are at least the minimum length and minimum embedment the plans show before cutting post tops to the finished elevation. After installation, the engineer may direct the contractor to remove and re-install up to 5% of the posts to verify they were placed to the required plan depth. If a post is embedded less than the required plan depth, the engineer may direct additional sampling. Re-install sampled posts at the locations and to the depths the plans show. Replace posts and other components that are damaged during sampling.

(6) Provide offset block-mounted reflectors as the plans show.

650.3.7 Structure Layout Staking

Replace the entire text with the following effective with the January 2021 letting:

(1) Set construction stakes or marks on a line offset from the structure centerline or on a reference line, whichever is appropriate, for both roadway and substructure units. Establish the plan horizontal and vertical positions to the required accuracy. Also, set and maintain stakes and marks as necessary to support the method of operations. Locate stakes and marks to within 0.02 feet of the true horizontal position, and establish the grade elevation to within 0.01 feet of true vertical position.

(2) For girder bridges, the department will compute deck grades with contractor-supplied girder elevation data.

(3) For slab span bridges, the department will compute slab grades using contractor-supplied falsework settlement and deflection data at tenth points along slab edges, the crown, and reference line locations. Before releasing falsework, survey top-of-slab elevations at the centerline of the abutments and at the 5/10th point along slab edges, the crown, and reference line locations to verify the camber.

710.2 Small Quantities

Replace paragraph one with the following effective with the November 2020 letting:

(1) For contracts with only small quantities of material subject to testing, as defined under specific contract QMP provisions, modify the requirements of 710 as follows:

1. The contractor may submit an abbreviated quality control plan as allowed in 701.1.2.3.
2. The engineer may accept aggregate based on documented previous testing and non-random start-up gradation testing as allowed in 710.5.6.1.

710.4 Concrete Mixes

Replace paragraph two with the following effective with the January 2021 letting:

(2) At least 3 business days before producing concrete, document that materials conform to 501 unless the engineer allows or individual QMP specifications provide otherwise. Include the following:

1. For mixes: quantities per cubic yard expressed as SSD weights and net water, water to cementitious material ratio, and air content.
2. For cementitious materials and admixtures: type, brand, and source.
3. For aggregates: absorption, SSD bulk specific gravity, wear, soundness, freeze thaw test results if required, and air correction factor. Also include proposed combined gradation limits and target individual gradations, including P200 limits..

710.5.6 Aggregate Testing

Replace the entire text with the following effective with the January 2021 letting:

710.5.6.1 General

(1) Test aggregate gradations during concrete production. The department will accept non-random start-up testing during concrete production for the following:

- Small quantities, as defined in 715.1.1.2, of class I concrete placed under 715.
- Less than 400 cubic yards of class II ancillary concrete placed under the contract.

710.5.6.2 Gradation Testing During Concrete Production

(1) Test aggregate gradation during concrete production batching either at a central mix batch plant or at a ready mix plant. The contractor's concrete production QC tests can be used for the same mix design on multiple contracts.

(2) Conform to combined gradation limits either calculated using department form WS3012 or custom limits approved as a part of the contractor's quality control plan. For class II concrete, also conform to the additional combined gradation requirements specified for class I concrete in 715.2.2.

(3) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.

(4) Contractor QC testing frequency is based on the cumulative plant production for each mix design across multiple WisDOT contracts.

TABLE 710-1 PLANT PRODUCTION QC GRADATION TESTING FREQUENCY

Daily Plant Production Rate for WisDOT Work	Minimum QC Frequency per Stockpile
250 cubic yards or less	one test per cumulative total of 250 cubic yards
more than 250 through 1000 cubic yards	one test per day
more than 1000 cubic yards	two tests per day

(5) Department QV testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract.

TABLE 710-2 CONTRACT PLACEMENT QV GRADATION TESTING FREQUENCY

Anticipated Daily Placement Rate Each WisDOT Contract	Minimum QV Frequency per Stockpile
less than or equal to 1000 cubic yards	one test per 5 days of placement
more than 1000 cubic yards	two tests per 5 days of placement

715.2.2 Combined Aggregate Gradation

Replace the entire text with the following effective with the January 2021 letting:

(1) Ensure that the combined aggregate gradation conforms to the following, expressed as weight percentages of the total aggregate:

1. One hundred percent passes the 2-inch sieve.
2. For mixes containing size No. 2 stone, the percent passing the 1-inch sieve is less than or equal to 89. The engineer may waive this requirement if the clear spacing between reinforcing bars is less than 2 inches.
3. The percent passing the No. 4 sieve is less than or equal to 42, except if the coarse aggregate is completely composed of crushed stone, up to 47 percent may pass the No. 4 sieve. For pavement, coarse aggregate may be completely composed of crushed concrete, in which case up to 47 percent may pass the No. 4 sieve.
4. The percent passing the No. 200 sieve is less than or equal to 2.3 percent.

716.2.1 Class II Concrete

Replace paragraphs four through six with the following effective with the November 2020 letting:

(4) Provide concrete with a 28-day compressive strength that equals or exceeds the following:

- If the contract specifies f'c, then f'c.
- If the contract does not specify f'c, then 3000 psi.

ERRATA

101.3 Definitions

Adopt AASHTO change order definition.

Change order A written order to the contractor detailing changes to the specified work quantities or modifications within the scope of the original contract..

Delete existing contract change order, contract modification, and contract revision definitions.

460.2.7(1) HMA Mixture Design

Correct table 460-2 errata by eliminating plasticity index requirements for LT, MT, and HT mixes.

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 860.2.7) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821 as modified in CMM 860.7.2) (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
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.

513.2.1(2) General

Correct errata by changing the CMM reference from 875.2 to 875.4.

(2) Conform to the department's certification method of acceptance, as defined in CMM 875.4, for railing and railing components. Furnish a certificate of compliance for miscellaneous hardware.

531.1(1) Description

Correct errata by adding structural steel sign supports constructed under 635.

(1) This section describes constructing drilled shaft foundations for the following:

- Overhead sign structures constructed under 532.
- High mast light towers constructed under 532.
- Structural steel sign supports constructed under 635.
- Camera poles constructed under 677.

635.3.1(1) Structural Steel Sign Supports

Correct errata by adding "type NS" concrete footings.

(1) Locate and erect the supports as specified for placement and orientation in 637.3.3.2. Construct Type NS concrete footings conforming to 531.

654.5(2) Payment

Correct errata by changing excavating to drilling.

(2) Payment for the Bases bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor templates, rods, nuts, and washers; for bar steel reinforcement; and for drilling and backfilling.

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

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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 contacting 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:

County	%	County	%	County	%
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

   As referred to in this section, the Director means:

   Director
   Office of Federal Contract Compliance Programs
   Ruess Federal Plaza
   310 W. Wisconsin Ave., Suite 1115
   Milwaukee, WI 53202

   The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

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 November 2020 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 DT4567, 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 DT4567 is available at:

https://wisconsindot.gov/Documents/formdocs/dt4567.docx

Effective February 2016 letting

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.

Effective with December 2017 Letting

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: WI20210010 01/01/2021

Superseded General Decision Number: WI20200010

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 $10.95 for calendar year 2021 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 $10.95 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 2021. 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	01/01/2021

BRWI0001-002 06/03/2019

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 33.80	24.28

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* BRWI0002-002 06/01/2020

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.77	23.47

BRWI0002-005 06/01/2019

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	$ 35.51	23.37

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* BRWI0003-002 06/01/2020

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.68	24.40

BRWI0004-002 06/01/2019

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.43	25.10

BRWI0006-002 06/01/2019

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.06	23.02

BRWI0007-002 06/03/2019

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.57	24.22

BRWI0008-002 06/01/2019

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.93	24.22

* BRWI0011-002 06/01/2020

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.68	24.40

* BRWI0019-002 06/01/2020

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 34.86	25.22

BRWI0034-002 06/03/2019

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.56	24.23

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, TREMPEALEAU, 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
PILEDRIVERMAN		
Zone A	$ 31.03	22.69
Zone B	$ 31.03	22.69

ELEC0014-002 06/14/2020

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 35.98	20.98

ELEC0014-007 07/05/2020

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 27.75	15.14

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 06/01/2020

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 41.62	30%+12.70

ELEC0158-002 06/01/2020

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 34.77	29.75%+10.26

ELEC0159-003 08/02/2020

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 41.86	22.67

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80

Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/31/2020

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 39.77	28.11

ELEC0388-002 06/01/2020

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:	$ 34.85	26%+11.20

ELEC0430-002 06/01/2020

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 41.86	22.66

ELEC0494-005 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 42.84	25.54

ELEC0494-006 06/01/2020

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes

Electricians:.....$ 36.32 22.51

ELEC0494-013 06/07/2020

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.....	$ 21.46	18.52
Technician.....	$ 31.34	20.00

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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* ELEC0577-003 06/01/2020

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:.....	$ 34.23	29.50%+10.00

ELEC0890-003 06/01/2020

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,
RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 37.41	25.95%+11.11

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

ENGI0139-005 06/01/2020

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 41.62	23.80
Group 2	$ 41.12	23.80
Group 3	$ 40.62	23.80
Group 4	$ 40.36	23.80
Group 5	$ 40.07	23.80
Group 6	$ 34.17	23.80

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs;

pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminious paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 37.31	27.62

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2020

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.11	27.87

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2020

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	$ 37.10	27.06

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 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 37.60	29.40

IRON0512-021 06/03/2019

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 33.19	29.40

LABO0113-002 06/01/2020

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 30.05	22.26
Group 2	$ 30.20	22.26
Group 3	$ 30.40	22.26
Group 4	$ 30.55	22.26
Group 5	$ 30.70	22.26
Group 6	$ 26.54	22.26

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/01/2020

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 29.30	22.26
Group 2	$ 29.40	22.26
Group 3	$ 29.45	22.26
Group 4	$ 29.65	22.26
Group 5	$ 29.50	22.26
Group 6	$ 26.39	22.26

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/01/2020

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 29.11	22.26
Group 2	$ 29.26	22.26
Group 3	$ 29.46	22.26
Group 4	$ 29.43	22.26
Group 5	$ 29.76	22.26
Group 6	$ 26.25	22.26

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/01/2020

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 33.72	17.95
Group 2	$ 33.82	17.95
Group 3	$ 33.87	17.95
Group 4	$ 34.07	17.95
Group 5	$ 33.92	17.95
Group 6	$ 30.35	17.95

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/01/2020

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 34.00	17.95
Group 2	$ 34.10	17.95
Group 3	$ 34.15	17.95
Group 4	$ 34.35	17.95
Group 5	$ 34.20	17.95
Group 6	$ 30.35	17.95

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

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 06/01/2019

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 36.08	20.36
Spray & Sandblast	$ 37.08	20.36

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2019

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 33.30	23.86
Brush	$ 32.95	23.86
Spray & Sandblast	$ 33.70	23.86

PAIN0802-002 06/01/2019

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 30.93	18.44

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2019

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	$ 30.93	18.58

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 06/02/2019

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 25.76	13.33

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, TREMPEALEAU, 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 06/01/2020

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 31.07	22.94
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 31.22	22.94
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
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"General Decision Number: WI20210008 01/01/2021

Superseded General Decision Number: WI20200008

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 $10.95 for calendar year 2021 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 $10.95 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 2021. 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	01/01/2021

BRWI0001-002 06/03/2019

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 33.80	24.28

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* BRWI0002-002 06/01/2020

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.77	23.47

BRWI0002-005 06/01/2019

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	$ 35.51	23.37

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* BRWI0003-002 06/01/2020

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.68	24.40

BRWI0004-002 06/01/2019

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.43	25.10

BRWI0006-002 06/01/2019

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 35.06 23.02

BRWI0007-002 06/03/2019

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.57	24.22

BRWI0008-002 06/01/2019

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.93	24.22

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* BRWI0009-001 06/01/2020

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.68	24.40

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* BRWI0011-002 06/01/2020

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.68	24.40

BRWI0013-002 06/03/2019

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.56	24.23

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* BRWI0019-002 06/01/2020

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 34.86	25.22

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* BRWI0021-002 06/01/2020

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.80	24.97

BRWI0034-002 06/03/2019

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 35.56	24.23

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, TREMPEALEAU, 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
PILEDRIVERMAN		
Zone A	$ 31.03	22.69
Zone B	$ 31.03	22.69

CARP2337-003 06/01/2019

	Rates	Fringes

MILLWRIGHT
Zone A.....$ 33.58 21.53
Zone B.....$ 33.58 21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/14/2020

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 35.98	20.98

ELEC0127-002 06/01/2020

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 41.62	30%+12.70

ELEC0158-002 06/01/2020

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 34.77	29.75%+10.26

ELEC0159-003 08/02/2020

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and

Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 41.86	22.67

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/31/2020

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 39.77	28.11

ELEC0388-002 06/01/2020

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:	$ 34.85	26%+11.20

ELEC0430-002 06/01/2020

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 41.86	22.66

ELEC0494-005 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 42.84	25.54

ELEC0494-006 06/01/2020

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 36.32	22.51

* ELEC0577-003 06/01/2020

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:	$ 34.23	29.50%+10.00

ELEC0890-003 06/01/2020

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 37.41	25.95%+11.11

ENGI0139-003 06/01/2020

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 42.92	23.15
Group 2	$ 41.67	23.15
Group 3	$ 39.97	23.15
Group 4	$ 39.44	23.15
Group 5	$ 37.37	23.15
Group 6	$ 35.84	23.15

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic

and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweeeprs; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freese Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3""; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

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ENGI0139-007 06/01/2020

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 41.64	23.25
Group 2	$ 40.86	23.25
Group 3	$ 39.91	23.25
Group 4	$ 38.86	23.25
Group 5	$ 37.46	23.25

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 06/01/2020

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 37.31	27.62

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2020

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.11	27.87

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2020

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	$ 37.10	27.06

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 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 37.60	29.40

IRON0512-021 06/03/2019

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 33.19	29.40

LABO0113-004 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1	$ 16.38	21.08
Group 2	$ 18.65	21.08
Group 3	$ 22.19	21.08
Group 4	$ 31.56	21.08
Group 5	$ 31.70	21.08
Group 6	$ 31.76	21.08
Group 7	$ 34.77	21.08
Group 8	$ 37.59	21.08

Group 9.....$ 38.23 21.08

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

LABO0113-005 06/01/2020

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1	$ 23.05	21.08
Group 2	$ 28.98	21.08
Group 3	$ 32.34	21.08
Group 4	$ 34.11	21.08

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 Sawer, 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

LABO0113-008 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 22.19	21.08
Group 2	$ 31.70	21.08
Group 3	$ 31.76	21.08
Group 4	$ 34.77	21.08
Group 5	$ 34.91	21.08
Group 6	$ 37.59	21.08
Group 7	$ 38.23	21.08

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

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* LABO0113-009 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1	$ 22.19	21.08
Group 2	$ 31.70	21.08
Group 3	$ 35.31	21.08
Group 4	$ 36.11	21.08
Group 5	$ 36.23	21.08
Group 6	$ 38.93	21.08
Group 7	$ 39.55	21.08

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 classifcations

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.

LABO0140-005 06/01/2020

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, TREMMPEALEAU, VERNON, VILAS, WALWWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 29.33	17.88
Group 2	$ 31.18	17.88
Group 3	$ 31.48	17.88
Group 4	$ 32.13	17.88

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 Sawer; 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

LABO0464-002 06/01/2020

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 29.23	17.88
Group 2	$ 31.43	17.88
Group 3	$ 31.63	17.88
Group 4	$ 32.38	17.88

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 Sawer; 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

LABO1091-010 06/01/2020

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1	$ 29.02	17.88
Group 2	$ 31.08	17.88
Group 3	$ 31.28	17.88
Group 4	$ 32.03	17.88

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 Sawer; 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, TREMPEALEAU, 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 06/01/2020

	Rates	Fringes
TRUCK DRIVER		

1 & 2 Axles	$ 31.07	22.94
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 31.22	22.94
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.

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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	201.0105 Clearing	45.000 STA	_____.____	_____.____
0004	201.0205 Grubbing	45.000 STA	_____.____	_____.____
0006	204.0100 Removing Concrete Pavement	22,193.000 SY	_____.____	_____.____
0008	204.0105 Removing Pavement Butt Joints	555.000 SY	_____.____	_____.____
0010	204.0109.S Removing Concrete Surface Partial Depth	150,165.000 SF	_____.____	_____.____
0012	204.0110 Removing Asphaltic Surface	2,248.000 SY	_____.____	_____.____
0014	204.0115 Removing Asphaltic Surface Butt Joints	502.000 SY	_____.____	_____.____
0016	204.0120 Removing Asphaltic Surface Milling	2,875.000 SY	_____.____	_____.____
0018	204.0150 Removing Curb & Gutter	16,220.000 LF	_____.____	_____.____
0020	204.0155 Removing Concrete Sidewalk	9,914.000 SY	_____.____	_____.____
0022	204.0185 Removing Masonry	0.150 CY	_____.____	_____.____
0024	204.0195 Removing Concrete Bases	51.000 EACH	_____.____	_____.____
0026	204.0210 Removing Manholes	28.000 EACH	_____.____	_____.____
0028	204.0220 Removing Inlets	63.000 EACH	_____.____	_____.____
0030	204.0245 Removing Storm Sewer (size) 01. All pipe sizes	8,468.000 LF	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	205.0100 Excavation Common	27,992.000 CY	_____.____	_____.____
0034	211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 8080-02-60	LS	LUMP SUM	_____.____
0036	211.0100 Prepare Foundation for Asphaltic Paving (project) 03. 8080-02-72	LS	LUMP SUM	_____.____
0038	213.0100 Finishing Roadway (project) 01.8080-02-60	1.000 EACH	_____.____	_____.____
0040	213.0100 Finishing Roadway (project) 02.8080-02-61	1.000 EACH	_____.____	_____.____
0042	213.0100 Finishing Roadway (project) 03.8080-02-72	1.000 EACH	_____.____	_____.____
0044	213.0100 Finishing Roadway (project) 04.8080-02-73	1.000 EACH	_____.____	_____.____
0046	213.0100 Finishing Roadway (project) 05.8080-05-70	1.000 EACH	_____.____	_____.____
0048	213.0100 Finishing Roadway (project) 06.8080-05-72	1.000 EACH	_____.____	_____.____
0050	213.0100 Finishing Roadway (project) 07.8080-07-70	1.000 EACH	_____.____	_____.____
0052	213.0100 Finishing Roadway (project) 08.8080-07-72	1.000 EACH	_____.____	_____.____
0054	305.0120 Base Aggregate Dense 1 1/4-Inch	26,317.000 TON	_____.____	_____.____
0056	390.0303 Base Patching Concrete	67.000 SY	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	405.0100 Coloring Concrete WisDOT Red	32.000 CY	_____.____	_____.____
0060	415.0080 Concrete Pavement 8-Inch	37,766.000 SY	_____.____	_____.____
0062	415.0210 Concrete Pavement Gaps	5.000 EACH	_____.____	_____.____
0064	415.0410 Concrete Pavement Approach Slab	144.000 SY	_____.____	_____.____
0066	415.1080 Concrete Pavement HES 8-Inch	512.000 SY	_____.____	_____.____
0068	415.4100 Concrete Pavement Joint Filling	40,211.000 SY	_____.____	_____.____
0070	415.5110.S Concrete Pavement Joint Layout 01. 8080-05-70	1.000 LS	_____.____	_____.____
0072	415.5110.S Concrete Pavement Joint Layout 02. 8080-07-70	1.000 LS	_____.____	_____.____
0074	415.5110.S Concrete Pavement Joint Layout 04. 8080-02-61	1.000 LS	_____.____	_____.____
0076	416.0160 Concrete Driveway 6-Inch	2,509.000 SY	_____.____	_____.____
0078	416.0610 Drilled Tie Bars	1,656.000 EACH	_____.____	_____.____
0080	416.0620 Drilled Dowel Bars	3,034.000 EACH	_____.____	_____.____
0082	450.4000 HMA Cold Weather Paving	715.000 TON	_____.____	_____.____
0084	455.0605 Tack Coat	1,643.000 GAL	_____.____	_____.____
0086	460.2000 Incentive Density HMA Pavement	2,426.000 DOL	1.00000	2,426.00

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0088	460.6645 HMA Pavement 5 MT 58-34 V	3,776.000 TON	_____.____	_____.____
0090	465.0105 Asphaltic Surface	513.000 TON	_____.____	_____.____
0092	465.0110 Asphaltic Surface Patching	120.000 TON	_____.____	_____.____
0094	465.0120 Asphaltic Surface Driveways and Field Entrances	133.000 TON	_____.____	_____.____
0096	465.0315 Asphaltic Flumes	22.000 SY	_____.____	_____.____
0098	509.0301 Preparation Decks Type 1	100.000 SY	_____.____	_____.____
0100	509.0302 Preparation Decks Type 2	25.000 SY	_____.____	_____.____
0102	509.0310.S Sawing Pavement Deck Preparation Areas	200.000 LF	_____.____	_____.____
0104	509.2000 Full-Depth Deck Repair	5.000 SY	_____.____	_____.____
0106	509.2100.S Concrete Masonry Deck Repair	10.000 CY	_____.____	_____.____
0108	509.5100.S Polymer Overlay	2,020.000 SY	_____.____	_____.____
0110	520.8000 Concrete Collars for Pipe	5.000 EACH	_____.____	_____.____
0112	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	3.000 EACH	_____.____	_____.____
0114	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	6.000 EACH	_____.____	_____.____
0116	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	1.000 EACH	_____.____	_____.____

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Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0118	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	1.000 EACH	_____.____	_____.____
0120	601.0405 Concrete Curb & Gutter 18-Inch Type A	134.000 LF	_____.____	_____.____
0122	601.0407 Concrete Curb & Gutter 18-Inch Type D	7.000 LF	_____.____	_____.____
0124	601.0409 Concrete Curb & Gutter 30-Inch Type A	20,545.000 LF	_____.____	_____.____
0126	601.0411 Concrete Curb & Gutter 30-Inch Type D	2,457.000 LF	_____.____	_____.____
0128	601.0600 Concrete Curb Pedestrian	288.000 LF	_____.____	_____.____
0130	602.0405 Concrete Sidewalk 4-Inch	70,133.000 SF	_____.____	_____.____
0132	602.0415 Concrete Sidewalk 6-Inch	22,861.000 SF	_____.____	_____.____
0134	602.0505 Curb Ramp Detectable Warning Field Yellow	160.000 SF	_____.____	_____.____
0136	602.0515 Curb Ramp Detectable Warning Field Natural Patina	646.000 SF	_____.____	_____.____
0138	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	103.000 SF	_____.____	_____.____
0140	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	126.000 SF	_____.____	_____.____
0142	602.1500 Concrete Steps	32.000 SF	_____.____	_____.____
0144	603.8000 Concrete Barrier Temporary Precast Delivered	972.000 LF	_____.____	_____.____

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Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0146	603.8125 Concrete Barrier Temporary Precast Installed	972.000 LF	_____.____	_____.____
0148	606.0200 Riprap Medium	28.000 CY	_____.____	_____.____
0150	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,109.000 LF	_____.____	_____.____
0152	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	749.000 LF	_____.____	_____.____
0154	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	3,158.000 LF	_____.____	_____.____
0156	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	115.000 LF	_____.____	_____.____
0158	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	2,113.000 LF	_____.____	_____.____
0160	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	475.000 LF	_____.____	_____.____
0162	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	40.000 LF	_____.____	_____.____
0164	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	132.000 LF	_____.____	_____.____
0166	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	446.000 LF	_____.____	_____.____
0168	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	645.000 LF	_____.____	_____.____
0170	611.0530 Manhole Covers Type J	49.000 EACH	_____.____	_____.____

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Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0172	611.0612 Inlet Covers Type C	1.000 EACH	_____.____	_____.____
0174	611.0624 Inlet Covers Type H	110.000 EACH	_____.____	_____.____
0176	611.0666 Inlet Covers Type Z	2.000 EACH	_____.____	_____.____
0178	611.1004 Catch Basins 4-FT Diameter	22.000 EACH	_____.____	_____.____
0180	611.1005 Catch Basins 5-FT Diameter	1.000 EACH	_____.____	_____.____
0182	611.1230 Catch Basins 2x3-FT	35.000 EACH	_____.____	_____.____
0184	611.2004 Manholes 4-FT Diameter	29.000 EACH	_____.____	_____.____
0186	611.2005 Manholes 5-FT Diameter	17.000 EACH	_____.____	_____.____
0188	611.2006 Manholes 6-FT Diameter	6.000 EACH	_____.____	_____.____
0190	611.3004 Inlets 4-FT Diameter	6.000 EACH	_____.____	_____.____
0192	611.3230 Inlets 2x3-FT	45.000 EACH	_____.____	_____.____
0194	611.8110 Adjusting Manhole Covers	12.000 EACH	_____.____	_____.____
0196	611.8115 Adjusting Inlet Covers	15.000 EACH	_____.____	_____.____
0198	611.8120.S Cover Plates Temporary	12.000 EACH	_____.____	_____.____
0200	616.0700.S Fence Safety	2,760.000 LF	_____.____	_____.____
0202	618.0100 Maintenance And Repair of Haul Roads (project) 01. 8080-02-60	1.000 EACH	_____.____	_____.____

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Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0204	618.0100 Maintenance And Repair of Haul Roads (project) 02. 8080-02-72	1.000 EACH	_____.____	_____.____
0206	618.0100 Maintenance And Repair of Haul Roads (project) 03. 8080-02-73	1.000 EACH	_____.____	_____.____
0208	618.0100 Maintenance And Repair of Haul Roads (project) 04. 8080-05-70	1.000 EACH	_____.____	_____.____
0210	618.0100 Maintenance And Repair of Haul Roads (project) 05. 8080-07-70	1.000 EACH	_____.____	_____.____
0212	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0214	620.0300 Concrete Median Sloped Nose	128.000 SF	_____.____	_____.____
0216	624.0100 Water	564.000 MGAL	_____.____	_____.____
0218	625.0100 Topsoil	7,652.000 SY	_____.____	_____.____
0220	625.0500 Salvaged Topsoil	3,280.000 SY	_____.____	_____.____
0222	627.0200 Mulching	2,751.000 SY	_____.____	_____.____
0224	628.1504 Silt Fence	735.000 LF	_____.____	_____.____
0226	628.1905 Mobilizations Erosion Control	11.000 EACH	_____.____	_____.____
0228	628.1910 Mobilizations Emergency Erosion Control	5.000 EACH	_____.____	_____.____
0230	628.2006 Erosion Mat Urban Class I Type A	10,931.000 SY	_____.____	_____.____
0232	628.7005 Inlet Protection Type A	128.000 EACH	_____.____	_____.____

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Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, N/A

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0234	628.7015 Inlet Protection Type C	72.000 EACH	_____.____	_____.____
0236	628.7020 Inlet Protection Type D	92.000 EACH	_____.____	_____.____
0238	628.7555 Culvert Pipe Checks	6.000 EACH	_____.____	_____.____
0240	629.0210 Fertilizer Type B	6.900 CWT	_____.____	_____.____
0242	630.0140 Seeding Mixture No. 40	299.000 LB	_____.____	_____.____
0244	630.0200 Seeding Temporary	50.000 LB	_____.____	_____.____
0246	630.0500 Seed Water	240.000 MGAL	_____.____	_____.____
0248	632.0101 Trees (species) (size) (root) 01. Bur Oak	13.000 EACH	_____.____	_____.____
0250	632.0101 Trees (species) (size) (root) 02. Rebbud Zumi Crabapple	11.000 EACH	_____.____	_____.____
0252	632.0101 Trees (species) (size) (root) 03. Amur Maackia	5.000 EACH	_____.____	_____.____
0254	632.0101 Trees (species) (size) (root) 04. Common Hackberry	13.000 EACH	_____.____	_____.____
0256	632.0101 Trees (species) (size) (root) 05. Skyline Honeylocust	18.000 EACH	_____.____	_____.____
0258	632.0101 Trees (species) (size) (root) 06. Thornless Hawthorne	3.000 EACH	_____.____	_____.____
0260	632.0101 Trees (species) (size) (root) 07. Kentuckey Coffeetree	6.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0262	632.0101 Trees (species) (size) (root) 07. Kentuckey Coffetree	6.000 EACH	_____.____	_____.____
0264	632.0101 Trees (species) (size) (root) 08. Ivory Silk Japanese Tree Lilac	5.000 EACH	_____.____	_____.____
0266	632.0101 Trees (species) (size) (root) 09. London Planetree	10.000 EACH	_____.____	_____.____
0268	632.0101 Trees (species) (size) (root) 10. Pin Oak	9.000 EACH	_____.____	_____.____
0270	632.0101 Trees (species) (size) (root) 11. Elm Regal	13.000 EACH	_____.____	_____.____
0272	632.0101 Trees (species) (size) (root) 12. Spring Flurry Serviceberry	6.000 EACH	_____.____	_____.____
0274	632.9101 Landscape Planting Surveillance and Care Cycles	20.000 EACH	_____.____	_____.____
0276	634.0814 Posts Tubular Steel 2x2-Inch X 14-FT	101.000 EACH	_____.____	_____.____
0278	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	57.000 EACH	_____.____	_____.____
0280	637.2210 Signs Type II Reflective H	1,042.240 SF	_____.____	_____.____
0282	637.2230 Signs Type II Reflective F	284.840 SF	_____.____	_____.____
0284	638.2602 Removing Signs Type II	196.000 EACH	_____.____	_____.____
0286	638.3000 Removing Small Sign Supports	137.000 EACH	_____.____	_____.____
0288	642.5001 Field Office Type B	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0290	643.0300 Traffic Control Drums	16,510.000 DAY	_____.____	_____.____
0292	643.0410 Traffic Control Barricades Type II	3,833.000 DAY	_____.____	_____.____
0294	643.0420 Traffic Control Barricades Type III	12,482.000 DAY	_____.____	_____.____
0296	643.0500 Traffic Control Flexible Tubular Marker Posts	77.000 EACH	_____.____	_____.____
0298	643.0600 Traffic Control Flexible Tubular Marker Bases	77.000 EACH	_____.____	_____.____
0300	643.0705 Traffic Control Warning Lights Type A	24,112.000 DAY	_____.____	_____.____
0302	643.0715 Traffic Control Warning Lights Type C	496.000 DAY	_____.____	_____.____
0304	643.0800 Traffic Control Arrow Boards	57.000 DAY	_____.____	_____.____
0306	643.0900 Traffic Control Signs	21,259.000 DAY	_____.____	_____.____
0308	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.____	_____.____
0310	643.0920 Traffic Control Covering Signs Type II	5.000 EACH	_____.____	_____.____
0312	643.1000 Traffic Control Signs Fixed Message	150.000 SF	_____.____	_____.____
0314	643.1050 Traffic Control Signs PCMS	28.000 DAY	_____.____	_____.____
0316	643.1070 Traffic Control Cones 42-Inch	5,267.000 DAY	_____.____	_____.____
0318	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0320	644.1420 Temporary Pedestrian Surface Plywood	26,298.000 SF	_____.____	_____.____
0322	644.1601 Temporary Pedestrian Curb Ramp	4,512.000 DAY	_____.____	_____.____
0324	644.1810 Temporary Pedestrian Barricade	8,642.000 LF	_____.____	_____.____
0326	645.0130 Geotextile Type R	84.000 SY	_____.____	_____.____
0328	646.1020 Marking Line Epoxy 4-Inch	36,735.000 LF	_____.____	_____.____
0330	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch	1,722.000 LF	_____.____	_____.____
0332	646.3020 Marking Line Epoxy 8-Inch	2,230.000 LF	_____.____	_____.____
0334	646.5020 Marking Arrow Epoxy	36.000 EACH	_____.____	_____.____
0336	646.5120 Marking Word Epoxy	7.000 EACH	_____.____	_____.____
0338	646.5220 Marking Symbol Epoxy	12.000 EACH	_____.____	_____.____
0340	646.6120 Marking Stop Line Epoxy 18-Inch	701.000 LF	_____.____	_____.____
0342	646.7120 Marking Diagonal Epoxy 12-Inch	206.000 LF	_____.____	_____.____
0344	646.7220 Marking Chevron Epoxy 24-Inch	62.000 LF	_____.____	_____.____
0346	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	415.000 LF	_____.____	_____.____
0348	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	1,092.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0350	646.8120 Marking Curb Epoxy	3,907.000 LF	_____.____	_____.____
0352	646.8220 Marking Island Nose Epoxy	4.000 EACH	_____.____	_____.____
0354	646.8320 Marking Parking Stall Epoxy	1,007.000 LF	_____.____	_____.____
0356	646.9000 Marking Removal Line 4-Inch	3,188.000 LF	_____.____	_____.____
0358	646.9100 Marking Removal Line 8-Inch	150.000 LF	_____.____	_____.____
0360	649.0105 Temporary Marking Line Paint 4-Inch	10,074.000 LF	_____.____	_____.____
0362	649.0150 Temporary Marking Line Removable Tape 4-Inch	5,250.000 LF	_____.____	_____.____
0364	649.0550 Temporary Marking Arrow Removable Tape	8.000 EACH	_____.____	_____.____
0366	650.4000 Construction Staking Storm Sewer	162.000 EACH	_____.____	_____.____
0368	650.4500 Construction Staking Subgrade	9,922.000 LF	_____.____	_____.____
0370	650.5000 Construction Staking Base	1,265.000 LF	_____.____	_____.____
0372	650.5500 Construction Staking Curb Gutter and Curb & Gutter	5,529.000 LF	_____.____	_____.____
0374	650.7000 Construction Staking Concrete Pavement	10,089.000 LF	_____.____	_____.____
0376	650.8000 Construction Staking Resurfacing Reference	3,479.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0378	650.8500 Construction Staking Electrical Installations (project) 01. 8080-02-60	LS	LUMP SUM	_____.____
0380	650.8500 Construction Staking Electrical Installations (project) 02. 8080-02-72	LS	LUMP SUM	_____.____
0382	650.8500 Construction Staking Electrical Installations (project) 03. 8080-05-70	LS	LUMP SUM	_____.____
0384	650.8500 Construction Staking Electrical Installations (project) 04. 8080-07-70	LS	LUMP SUM	_____.____
0386	650.8500 Construction Staking Electrical Installations (project) 05. 8080-02-60	LS	LUMP SUM	_____.____
0388	650.9000 Construction Staking Curb Ramps	102.000 EACH	_____.____	_____.____
0390	650.9910 Construction Staking Supplemental Control (project) 01. 8080-02-60	LS	LUMP SUM	_____.____
0392	650.9910 Construction Staking Supplemental Control (project) 02. 8080-02-72	LS	LUMP SUM	_____.____
0394	650.9910 Construction Staking Supplemental Control (project) 03. 8080-02-73	LS	LUMP SUM	_____.____
0396	650.9910 Construction Staking Supplemental Control (project) 04. 8080-05-70	LS	LUMP SUM	_____.____
0398	650.9910 Construction Staking Supplemental Control (project) 05. 8080-07-70	LS	LUMP SUM	_____.____
0400	650.9920 Construction Staking Slope Stakes	3,394.000 LF	_____.____	_____.____
0402	651.1000.S Signal Controller Training	LS	LUMP SUM	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0404	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	4,412.000 LF	_____.____	_____.____
0406	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,674.000 LF	_____.____	_____.____
0408	652.0605 Conduit Special 2-Inch	134.000 LF	_____.____	_____.____
0410	652.0615 Conduit Special 3-Inch	438.000 LF	_____.____	_____.____
0412	652.0800 Conduit Loop Detector	976.000 LF	_____.____	_____.____
0414	653.0140 Pull Boxes Steel 24x42-Inch	4.000 EACH	_____.____	_____.____
0416	653.0154 Pull Boxes Non-Conductive 24x36-Inch	2.000 EACH	_____.____	_____.____
0418	653.0164 Pull Boxes Non-Conductive 24x42-Inch	28.000 EACH	_____.____	_____.____
0420	653.0905 Removing Pull Boxes	27.000 EACH	_____.____	_____.____
0422	654.0101 Concrete Bases Type 1	18.000 EACH	_____.____	_____.____
0424	654.0102 Concrete Bases Type 2	4.000 EACH	_____.____	_____.____
0426	654.0110 Concrete Bases Type 10	3.000 EACH	_____.____	_____.____
0428	654.0113 Concrete Bases Type 13	2.000 EACH	_____.____	_____.____
0430	654.0120 Concrete Bases Type 10-Special	2.000 EACH	_____.____	_____.____
0432	654.0217 Concrete Control Cabinet Bases Type 9 Special	2.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0434	655.0230 Cable Traffic Signal 5-14 AWG	2,208.000 LF	_____.____	_____.____
0436	655.0250 Cable Traffic Signal 9-14 AWG	878.000 LF	_____.____	_____.____
0438	655.0260 Cable Traffic Signal 12-14 AWG	595.000 LF	_____.____	_____.____
0440	655.0305 Cable Type UF 2-12 AWG Grounded	676.000 LF	_____.____	_____.____
0442	655.0320 Cable Type UF 2-10 AWG Grounded	489.000 LF	_____.____	_____.____
0444	655.0515 Electrical Wire Traffic Signals 10 AWG	1,407.000 LF	_____.____	_____.____
0446	655.0610 Electrical Wire Lighting 12 AWG	6,051.000 LF	_____.____	_____.____
0448	655.0620 Electrical Wire Lighting 8 AWG	4,943.000 LF	_____.____	_____.____
0450	655.0625 Electrical Wire Lighting 6 AWG	24,715.000 LF	_____.____	_____.____
0452	655.0700 Loop Detector Lead In Cable	1,488.000 LF	_____.____	_____.____
0454	655.0800 Loop Detector Wire	2,928.000 LF	_____.____	_____.____
0456	655.0900 Traffic Signal EVP Detector Cable	1,154.000 LF	_____.____	_____.____
0458	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. STH 35 & Coulee Rd/Buckeye St	LS	LUMP SUM	_____.____
0460	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. STH 35 & Monroe Intersection	LS	LUMP SUM	_____.____
0462	657.0100 Pedestal Bases	14.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0464	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	3.000 EACH	_____.____	_____.____
0466	657.0310 Poles Type 3	3.000 EACH	_____.____	_____.____
0468	657.0345 Poles Type 9	1.000 EACH	_____.____	_____.____
0470	657.0350 Poles Type 10	2.000 EACH	_____.____	_____.____
0472	657.0352 Poles Type 10-Special	2.000 EACH	_____.____	_____.____
0474	657.0360 Poles Type 13	2.000 EACH	_____.____	_____.____
0476	657.0425 Traffic Signal Standards Aluminum 15-FT	7.000 EACH	_____.____	_____.____
0478	657.0430 Traffic Signal Standards Aluminum 10-FT	7.000 EACH	_____.____	_____.____
0480	657.0520 Monotube Arms 20-FT	2.000 EACH	_____.____	_____.____
0482	657.0530 Monotube Arms 30-FT	1.000 EACH	_____.____	_____.____
0484	657.0536 Monotube Arms 35-FT-Special	1.000 EACH	_____.____	_____.____
0486	657.0546 Monotube Arms 45-FT-Special	1.000 EACH	_____.____	_____.____
0488	657.0555 Monotube Arms 55-FT	1.000 EACH	_____.____	_____.____
0490	657.0590 Trombone Arms 20-FT	1.000 EACH	_____.____	_____.____
0492	657.0595 Trombone Arms 25-FT	1.000 EACH	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0494	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	2.000 EACH	_____.____	_____.____
0496	657.0704 Luminaire Arms Truss Type 4-Inch Clamp 10-FT	1.000 EACH	_____.____	_____.____
0498	657.0808 Luminaire Arms Steel 8-FT	2.000 EACH	_____.____	_____.____
0500	657.0810 Luminaire Arms Steel 10-FT	2.000 EACH	_____.____	_____.____
0502	657.0812 Luminaire Arms Steel 12-FT	1.000 EACH	_____.____	_____.____
0504	657.0815 Luminaire Arms Steel 15-FT	1.000 EACH	_____.____	_____.____
0506	658.0173 Traffic Signal Face 3S 12-Inch	18.000 EACH	_____.____	_____.____
0508	658.0174 Traffic Signal Face 4S 12-Inch	16.000 EACH	_____.____	_____.____
0510	658.0416 Pedestrian Signal Face 16-Inch	12.000 EACH	_____.____	_____.____
0512	658.0500 Pedestrian Push Buttons	12.000 EACH	_____.____	_____.____
0514	658.5069 Signal Mounting Hardware (location) 01. STH 35 & Coulee Rd/Buckeye St	LS	LUMP SUM	_____.____
0516	658.5069 Signal Mounting Hardware (location) 02. STH 35 & Monroe Intersection	LS	LUMP SUM	_____.____
0518	659.1115 Luminaires Utility LED A	4.000 EACH	_____.____	_____.____
0520	659.1125 Luminaires Utility LED C	4.000 EACH	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0522	661.0200 Temporary Traffic Signals for Intersections (location) 01. STH 35 & Coulee Rd/Buckeye St	LS	LUMP SUM	_____.____
0524	661.0200 Temporary Traffic Signals for Intersections (location) 02. STH 35 & Division Street	LS	LUMP SUM	_____.____
0526	661.0200 Temporary Traffic Signals for Intersections (location) 03. STH 35 & North Street/Shop Road	LS	LUMP SUM	_____.____
0528	661.0200 Temporary Traffic Signals for Intersections (location) 04. STH 35 & South Street	LS	LUMP SUM	_____.____
0530	690.0150 Sawing Asphalt	4,076.000 LF	_____.____	_____.____
0532	690.0250 Sawing Concrete	18,036.000 LF	_____.____	_____.____
0534	715.0415 Incentive Strength Concrete Pavement	23,913.000 DOL	1.00000	23,913.00
0536	715.0710 Optimized Aggregate Gradation Incentive	46,360.000 DOL	1.00000	46,360.00
0538	740.0440 Incentive IRI Ride	6,500.000 DOL	1.00000	6,500.00
0540	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	1,400.000 HRS	5.00000	7,000.00
0542	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	1,600.000 HRS	5.00000	8,000.00
0544	SPV.0060 Special 01. Gate Valve & Box 4-Inch	1.000 EACH	_____.____	_____.____
0546	SPV.0060 Special 02. Gate Valve & Box 6-Inch	27.000 EACH	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0548	SPV.0060 Special 03. Gate Valve & Box 8-Inch	27.000 EACH	_____.____	_____.____
0550	SPV.0060 Special 04. Gate Valve & Box 12-Inch	12.000 EACH	_____.____	_____.____
0552	SPV.0060 Special 05. Remove Hydrant	11.000 EACH	_____.____	_____.____
0554	SPV.0060 Special 06. Hydrant	23.000 EACH	_____.____	_____.____
0556	SPV.0060 Special 07. Connect to Existing Water Main	18.000 EACH	_____.____	_____.____
0558	SPV.0060 Special 08. Curb Stop & Box 1-Inch	152.000 EACH	_____.____	_____.____
0560	SPV.0060 Special 09. Curb Stop & Box 1 1/2-Inch	5.000 EACH	_____.____	_____.____
0562	SPV.0060 Special 10. Corporation 1-Inch	152.000 EACH	_____.____	_____.____
0564	SPV.0060 Special 11. Corporation 1 1/2-Inch	5.000 EACH	_____.____	_____.____
0566	SPV.0060 Special 12. Connect to Existing Water Service	157.000 EACH	_____.____	_____.____
0568	SPV.0060 Special 13. Sanitary Manhole 4-FT Diameter	37.000 EACH	_____.____	_____.____
0570	SPV.0060 Special 14. Sanitary Manhole 5-FT Diameter	5.000 EACH	_____.____	_____.____
0572	SPV.0060 Special 15. Sanitary Service Wye 8x4-Inch	135.000 EACH	_____.____	_____.____
0574	SPV.0060 Special 16. Sanitary Service Wye 8x6-Inch	6.000 EACH	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0576	SPV.0060 Special 17. Sanitary Service Wye 10x4-Inch	25.000 EACH	_____.____	_____.____
0578	SPV.0060 Special 18. Sanitary Service Wye 10x6-Inch	3.000 EACH	_____.____	_____.____
0580	SPV.0060 Special 19. Sanitary Service Wye 24x6-Inch	1.000 EACH	_____.____	_____.____
0582	SPV.0060 Special 20. Connect to Existing Sanitary Sewer Service	169.000 EACH	_____.____	_____.____
0584	SPV.0060 Special 21. Connect to Existing Sanitary Manhole	7.000 EACH	_____.____	_____.____
0586	SPV.0060 Special 22. Connect to Existing Sanitary Sewer	11.000 EACH	_____.____	_____.____
0588	SPV.0060 Special 23. Remove Existing Structure	28.000 EACH	_____.____	_____.____
0590	SPV.0060 Special 24. Adjust Existing Casting	6.000 EACH	_____.____	_____.____
0592	SPV.0060 Special 25. Concrete Base Type Special	25.000 EACH	_____.____	_____.____
0594	SPV.0060 Special 26. Concrete Control Cabinet Base Type Special	1.000 EACH	_____.____	_____.____
0596	SPV.0060 Special 27. Lighting Control Cabinet Type Special	1.000 EACH	_____.____	_____.____
0598	SPV.0060 Special 28. Salvage Lighting Unit	31.000 EACH	_____.____	_____.____
0600	SPV.0060 Special 29. Salvage Luminaire	4.000 EACH	_____.____	_____.____
0602	SPV.0060 Special 30. Lighting Unit Type Special	23.000 EACH	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0604	SPV.0060 Special 31. Luminaire Type Special	4.000 EACH	_____.____	_____.____
0606	SPV.0060 Special 32. Install Salvaged Lighting Unit	1.000 EACH	_____.____	_____.____
0608	SPV.0060 Special 33. Install Salvaged Lighting Unit With New Luminaire	1.000 EACH	_____.____	_____.____
0610	SPV.0060 Special 34. Adjust Existing Valve Box	23.000 EACH	_____.____	_____.____
0612	SPV.0060 Special 35. Connecting New Storm Structure to Existing Storm Sewer Pipe	23.000 EACH	_____.____	_____.____
0614	SPV.0060 Special 36. Connecting New Storm Sewer Pipe to Existing Storm Sewer Pipe	6.000 EACH	_____.____	_____.____
0616	SPV.0060 Special 37. Inlets 6-FT Diameter	1.000 EACH	_____.____	_____.____
0618	SPV.0060 Special 38. Adjusting Inlet Covers and Replacing Rings	4.000 EACH	_____.____	_____.____
0620	SPV.0085 Special 01. Water Main Fittings	5,709.000 LB	_____.____	_____.____
0622	SPV.0090 Special 01. Water Main Ductile Iron 4-Inch	10.000 LF	_____.____	_____.____
0624	SPV.0090 Special 02. Water Main Ductile Iron 6-Inch	558.000 LF	_____.____	_____.____
0626	SPV.0090 Special 03. Water Main Ductile Iron 8-Inch	4,992.000 LF	_____.____	_____.____
0628	SPV.0090 Special 04. Water Main Ductile Iron 12-Inch	3,163.000 LF	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0630	SPV.0090 Special 05. Water Service Copper 1-Inch	4,818.000 LF	_____.____	_____.____
0632	SPV.0090 Special 06. Water Service Copper 1 1/2-Inch	167.000 LF	_____.____	_____.____
0634	SPV.0090 Special 07. Sanitary Sewer PVC 8-Inch	6,510.000 LF	_____.____	_____.____
0636	SPV.0090 Special 08. Sanitary Sewer PVC 10-Inch	900.000 LF	_____.____	_____.____
0638	SPV.0090 Special 09. Sanitary Sewer PVC 15-Inch	745.000 LF	_____.____	_____.____
0640	SPV.0090 Special 10. Sanitary Sewer PVC 18-Inch	7.000 LF	_____.____	_____.____
0642	SPV.0090 Special 11. Sanitary Sewer PVC 24-Inch	505.000 LF	_____.____	_____.____
0644	SPV.0090 Special 12. Sanitary Sewer Steel Casing 30-Inch	32.000 LF	_____.____	_____.____
0646	SPV.0090 Special 13. Sanitary Sewer Steel Casing 30-Inch Special	51.000 LF	_____.____	_____.____
0648	SPV.0090 Special 14. Sanitary Service PVC 4-Inch	5,257.000 LF	_____.____	_____.____
0650	SPV.0090 Special 15. Sanitary Service PVC 6-Inch	298.000 LF	_____.____	_____.____
0652	SPV.0090 Special 18. Remove Retaining Walls	50.000 LF	_____.____	_____.____
0654	SPV.0090 Special 19. Salvage and Reinstall Fence	185.000 LF	_____.____	_____.____
0656	SPV.0090 Special 20. Salvage and Reinstall Beam Guard	65.000 LF	_____.____	_____.____
0658	SPV.0090 Special 21. Salvage Modular Block Retaining Wall	130.000 LF	_____.____	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0660	SPV.0090 Special 22. Retaining Wall Footing	103.000 LF	_____.____	_____.____
0662	SPV.0090 Special 23. Marking Crosswalk Grooved Epoxy Ladder Pattern 36-Inch	982.000 LF	_____.____	_____.____
0664	SPV.0090 Special 24. Concrete Curb and Gutter24-Inch Type A	50.000 LF	_____.____	_____.____
0666	SPV.0090 Special 25. Cure and Seal Treatment Concrete Curb and Gutter	23,615.000 LF	_____.____	_____.____
0668	SPV.0090 Special 26. Cure and Seal Treatment Concrete Curb Pedestrian	288.000 LF	_____.____	_____.____
0670	SPV.0090 Special 27. Concrete Curb and Gutter 24-Inch Type D	288.000 LF	_____.____	_____.____
0672	SPV.0105 Special 01. Abandon Existing Water System, 8080-05-72	LS	LUMP SUM	_____.____
0674	SPV.0105 Special 02. Abandon Existing Sanitary System, 8080-02-61	LS	LUMP SUM	_____.____
0676	SPV.0105 Special 03. Inside Drop	LS	LUMP SUM	_____.____
0678	SPV.0105 Special 05. Salvage and Reinstall Light Pole	LS	LUMP SUM	_____.____
0680	SPV.0105 Special 06. Salvage and Reinstall Sign	LS	LUMP SUM	_____.____
0682	SPV.0105 Special 07. Remove Pedestrian Beacon STH 35 & St. Croix Street	LS	LUMP SUM	_____.____
0684	SPV.0105 Special 08. AC Powered RRFB System STH 35 & St. Croix Street	LS	LUMP SUM	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0686	SPV.0105 Special 09. Remove and Salvage Traffic Signals, STH 35 and Coulee Road	LS	LUMP SUM	_____.____
0688	SPV.0105 Special 10. Remove and Salvage Traffic Signals, STH 35 and Monroe Street	LS	LUMP SUM	_____.____
0690	SPV.0105 Special 11. Temporary Non-Intrusive Vehicle Detection System, STH 35 & Division Street	LS	LUMP SUM	_____.____
0692	SPV.0105 Special 12. Temporary Non-Intrusive Vehicle Detection System, STH 35 & North Street/Shop	LS	LUMP SUM	_____.____
0694	SPV.0105 Special 13. Temporary Non-Intrusive Vehicle Detection System, STH 35 & South Street	LS	LUMP SUM	_____.____
0696	SPV.0105 Special 14. Traffic Signal Controller and Cabinet Fully Actuated 8 Phase, STH 35 & Coule	LS	LUMP SUM	_____.____
0698	SPV.0105 Special 15. Emergency Vehicle Preemtion System, STH 35 & Coulee Road	LS	LUMP SUM	_____.____
0700	SPV.0105 Special 16. Install State Furnished EVP Detector Heads, STH 35 & Monroe Street	LS	LUMP SUM	_____.____
0702	SPV.0105 Special 17. Furnish and Install Video Vehicular Detection System, STH 35 & Coulee Rd/Buc	LS	LUMP SUM	_____.____
0704	SPV.0105 Special 18. Abandon Existing Water System, 8080-07-72	LS	LUMP SUM	_____.____
0706	SPV.0105 Special 19. Abandon Existing Sanitary System, 8080-05-72	LS	LUMP SUM	_____.____

Proposal ID: 20210309027 Project(s): 8080-02-60, 8080-02-61, 8080-02-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70, 8080-07-72

Federal ID(s): WISC 2021109, WISC 2021108, WISC 2021111, N/A, WISC 2021112, N/A, WISC 2021110, 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
0708	SPV.0105 Special 20. Abandon Existing Sanitary System, 8080-07-72	LS	LUMP SUM	_____.____
0710	SPV.0165 Special 01. Insulation	4,232.000 SF	_____.____	_____.____
0712	SPV.0165 Special 02. Remove, Salvage and Reinstall Brick Pavers	221.000 SF	_____.____	_____.____
0714	SPV.0165 Special 03. Cure and Seal Treatment Concrete Median Slope Nose	128.000 SF	_____.____	_____.____
0716	SPV.0165 Special 04. Cure and Seal Treatment Concrete Sidewalk	92,994.000 SF	_____.____	_____.____
0718	SPV.0165 Special 05. Cure and Seal Treatment Concrete Steps	32.000 SF	_____.____	_____.____
0720	SPV.0180 Special 02. Concrete Pavement 5 1/2-Inch	635.000 SY	_____.____	_____.____
0722	SPV.0180 Special 03. Concrete Pavement Repair Doweled	1,021.000 SY	_____.____	_____.____
0724	SPV.0180 Special 04. Concrete Pavement Replacement Doweled	567.000 SY	_____.____	_____.____
0726	SPV.0180 Special 05. 30" Concrete Centerline Repair	29.000 SY	_____.____	_____.____
0728	SPV.0200 Special 01. Excess Manhole Depth	163.000 VF	_____.____	_____.____
	Section: 0001		Total:	_____.____

Total Bid: _____.____

PLEASE ATTACH ADDENDA HERE

Wisconsin Department of Transportation

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

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

February 19, 2021

NOTICE TO ALL CONTRACTORS:

Proposal #27:

8080-02-61, WISC 2021 108
City of Hudson, Second Street
Front Street to Vine Street
STH 35
St. Croix County

8080-02-60
C Hudson, Second Street
Front Street to Vine Street
STH 35
St. Croix County

8080-02-71, WISC 2021 109
City of Hudson, Second Street
Coulee Rd/Buckeye St Intersection
STH 35
St. Croix County

8080-02-73, WISC 2021 110
V North Hudson, 6th Street North
Sommers Street to North End Road
STH 35
St. Croix County

8080-05-70, WISC 2021 110
V North Hudson, 6th Street
Lake Mallalieu Bridge – Sommers St
STH 35
St. Croix County

8080-05-7
V North Hudson, 6th Street
Lake Mallalieu Bridge – Sommers St
STH 35
St. Croix County

8080-07-70, WISC 2021 112
City of Hudson, Second Street
Vine Street to Willow River
STH 35
St. Croix County

8080-07-72
City of Hudson, Second Street
Vine Street to Willow River
STH 35
St. Croix County

Letting of March 9, 2021

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

Special Provisions

Revised Special Provisions	
Article No.	Description
22	Concrete Pavement

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

8080-02-60. 8080-02-61, 8080-07-72, 8080-02-73, 8080-05-70, 8080-05-72, 8080-07-70 & 8080-07-72

February 19, 2021

Special Provisions

22. Concrete Pavement.

Replace entire article language with the following:

Supplement standard spec 715.2 with the following:

- If the geological composition of the coarse aggregate is primarily igneous or metamorphic materials, modify and supplement standard spec 415, standard spec 710, and standard spec 715 with the following:
    1. Concrete placed after September 30 will meet the following requirements: for binary mixes use up to 15% fly ash or slag, except for slip-formed work the contractor may use up to 20% slag and for ternary mixes use up to 25% fly ash and slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
    2. One hundred percent (100%) of the aggregate shall pass the 1 1/4-inch sieve.
    3. Ninety-five percent (95%) of the aggregate shall pass the 1-Inch sieve.
- Use of recycled concrete for coarse aggregate will not be allowed.

END OF ADDENDUM