

HIGHWAY WORK PROPOSAL

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

Proposal Number: **064**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Manitowoc	4570-12-71	WISC 2018472	Waldo Blvd., City Of Manitowoc; 8th Street - Maritime Dr	STH 042
Manitowoc	4570-12-72	N/A	Waldo Blvd., City Of Manitowoc; 8th Street - Maritime Dr	STH 042
Manitowoc	1500-37-75	N/A	Waldo Blvd., City Of Manitowoc; 14th Street - 8th Street	USH 010
Manitowoc	1500-37-74	WISC 2019210	Waldo Blvd., City Of Manitowoc; 14th Street - 8th Street	USH 010

**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: \$330,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: March 12, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time November 01, 2019	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 8%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

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

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work:	For Department Use Only
Grading, Base, Concrete Pavement, Asphalt Pavement, Storm Sewer, Curb and Gutter, Sidewalk, Concrete Driveway, Concrete Truck Apron, Plantings, Signs, Overhead Sign Supports, Street Lighting, Traffic Signals, Pavement Markings, Sanitary Sewer, Water Main	
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

- (1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

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

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

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

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

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:
<https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

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

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

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 1. Have a properly executed annual bid bond on file with the department.

2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:
 1. Download the latest schedule of items reflecting all addenda from the Bid Express™ web site.
 2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

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

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid Express™ web site reflecting the latest addenda posted on the department's web site at:
<https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>
Use Expedite™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal, not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.
- (5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.

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

C Waiver of Electronic Submittal

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

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1500-37-74 and 1500-37-75 Waldo Blvd, City of Manitowoc, 14th Street – 8th Street, USH 10; Project 4570-12-71 and 4570-12-72 Waldo Blvd, City of Manitowoc, 8th Street – Maritime Drive, STH 42, Manitowoc 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, 2019 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20181119)

2. Scope of Work.

The work under this contract shall consist of concrete pavement/sidewalk removals, grading, base aggregate dense, breaker run, HMA pavement, concrete pavement, concrete structures, storm sewer, concrete curb and gutter, concrete sidewalks, pavement markings, landscaping, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

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

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

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

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment.

Do not commence utility work or disrupt a utility without notifying the property owner, resident, school, or business a minimum of 48 hours in advance. Do not shut off utilities to schools or businesses during the school or business open times unless approved by the engineer.

Work cannot start on Stage 2 until June 10, 2019 or after.

Migratory Birds

Swallow and other migratory birds' nests have been observed on or 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 Removing Old Structure.

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.

Interim Completion Date

Complete construction operations on STH 42 (Waldo Blvd) – Maritime roundabout to the stage necessary to reopen it to through traffic prior to 12:01 AM August 3, 2019. Do not reopen until completing the following work: Storm sewer, grading, base aggregate dense, concrete pavement, HMA pavement, permanent seeding, erosion control, pavement markings, signing, and all incidentals to complete the roadway. All lanes are to be open for Maritime Drive and Bay Shore Dr. Complete Waldo Blvd from the roundabout to Station 185+50. STH 42 (Waldo Blvd) will remain closed west of the roundabout.

If the contractor fails to complete the work necessary to reopen STH 42 (Waldo Blvd) – Maritime roundabout to through traffic prior to 12:01 AM August 3, 2019, the department will assess the contractor \$2070 in interim liquidated damages for each calendar day that the roadway remains closed after 12:01 AM, August 3, 2019. 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.

4. Traffic.

Close USH 10/STH 42, Waldo Blvd to through traffic during construction operations under this contract based on staging. Place the appropriate signing and barricades prior to beginning construction work on the closed roadway sections.

At intersections where traffic is maintained, traffic must be on existing pavement, new pavement or temporary pavement at all times.

Sanitary Sewer, Storm Sewer, and Watermain Installation

Maintain traffic at the following intersections except for the allowable closures noted below. Local access to properties must be maintained from at least one direction at all times.

- 8th Street – One northbound lane must be maintained at all times. Southbound traffic to be closed at Oak Street.
- 11th Street – One southbound lane must be maintained at all times.
- Maritime Drive and Memorial Drive – One northbound lane and one southbound lane must be maintained at all times with two exceptions. An overnight closure from 8:00 PM to 6:00 AM is allowed for storm sewer installation. In addition, an overnight closure from 8:00 PM to 6:00 AM is allowed for placing temporary pavement during stage 1.

Allowable Closures during Sanitary Sewer, Storm Sewer, and Watermain Installation

Of the allowable intersection closures, no two closures may happen at the same time.

- 8th Street – Maximum of 5 consecutive calendar days
- 11th Street – Maximum of 5 consecutive calendar days

Concrete Pavement Construction

To facilitate the construction of the concrete pavement intersections may be closed except for the following:

- 8th Street – One northbound lane must be maintained at all times.
- 11th Street – One southbound lane must be maintained at all times.
- Maritime Drive and Memorial Drive – Two-way traffic must be maintained at all times.

Detour

Traffic along USH 10/STH 42, Waldo Blvd will be detoured and closed to through traffic. Below is a summary of detours. See detour plans for detailed signing information.

USH 10 East

- USH 10 east will be detoured at junction of IH 43 and USH 151. Detour will follow USH 151 east to the junction of USH 151 and USH 10.

USH 10 West

- USH 10 west will be detoured at junction of USH 151 and USH 10. USH 10 West will follow USH 151 west to IH 43, north on IH 43 to USH 10 west.

STH 42 East

- STH 42 east will be detoured at the junction of IH 43 and STH 42. STH 42 east will follow IH 43 north to STH 310, east on STH 310 to STH 42.

STH 42 West

- STH 42 west will be detoured at the junction of STH 310 and STH 42. STH 42 west will follow STH 310 west to IH 43, south on IH 43 to STH 42.

Install PCMS as shown in the plans seven days prior to implementing the detour to notify travelers.

Maintaining Access

Always maintain local and emergency access to adjacent properties to and from the work zone unless otherwise approved by the engineer. Access to be maintained on an aggregate surface. Cost for this work including aggregate material is incidental to bid item of Excavation Common.

Keep appropriate emergency officials informed of routes within the construction area to provide emergency services. Allow emergency vehicles access at all times to these areas during construction.

Residential property drive approaches may be closed for the minimum time required to construct new sanitary sewer, watermain, storm sewer, pavement and access approaches, unless otherwise directed by the engineer. Do not close any residential drive approach or remove it from service without giving a 48-hour notice to the occupants of the premises to remove their vehicles prior to removal or closing of the drive access.

During concrete paving and curing operations in the intersections of Park Row Blvd and Lincoln Blvd, local traffic to the residents' house will require two-way traffic on streets that are currently one way. Place appropriate two-way traffic construction signs to make residents aware of this. Also, notify all residents before closing off access to Waldo Blvd and enacting two-way traffic.

Staging

Develop the schedule of operations to conform to the construction staging as described in the plans, unless modifications of the plans are approved in writing by the engineer.

Submit any traffic control change request to the engineer at least 72 hours prior to an actual traffic control change. A request does not constitute approval.

Sidewalk Closure Restrictions

Pedestrian access must be maintained throughout the project. All temporary pedestrian access and crossings must be ADA compliant on a hard surface and follow applicable details as show in Standard Detail Drawing 15d30 (sheet a-c) Traffic Control, Pedestrian Accommodation.

Maintain existing sidewalks on one side of Waldo Blvd until the sidewalk on the other side of the roadway has been completed. If during construction operations any existing sidewalk is removed on a pedestrian route that needs to be maintained, replace hard surface with temporary pedestrian surface asphalt before opening back to pedestrian traffic.

Place pedestrian safety fence adjacent to the existing sidewalk along the project work area and as directed by the engineer to prevent pedestrians from entering the work site. When pedestrians are moved to the new sidewalk on the other side of the roadway adjacent to the completed terrace and roadway, pedestrian fence is required unless directed by the engineer.

Pedestrian safety fence is also required adjacent to Maritime Trail within project work area to keep trail users away from the work area.

Temporary pedestrian crossings on mainline Waldo Blvd are required at the intersections:

- 6th Street
- 9th Street
- 11th Street

Provide at least one hard surface temporary crosswalk at these intersections during construction. Crossings may be needed at other intersections in the project corridor depending on the contractor's operations.

Place temporary curb ramps and cross walks down all side roads, outside the construction limits, on the side where sidewalk is open to maintain temporary pedestrian accommodations. See construction detail and Standard Detail Drawing 15d30 (sheet a-c) Traffic Control, Pedestrian Accommodation for additional information.

Base aggregate dense is not considered a hard surface and will not fulfill this requirement. Contact property owners when sidewalk closures will take place and coordinate any temporary access needed if alternate access does not exist.

Mariner's Trail

Close the trail for storm sewer installation and pavement replacement. Closures are restricted to beginning of March to the middle of May on the days of Monday through Thursday only. Closure is limited to one day per storm sewer crossing and one overall day for pavement replacement. If pavement is not replaced immediately after storm sewer work, a temporary pedestrian hard surface must be provided until permanent pavement is placed. Place temporary pedestrian fence as necessary to protect any remaining drop offs adjacent to the trail after storm sewer work.

Portable Changeable Message Signs – Message Prior Approval

After coordinating with department construction field staff, notify the Northeast Region Traffic Section at (920) 492-5641 (secondary contact number is (920) 492-7719) three business days prior to deploying or changing a message on a PCMS to obtain approval of the proposed message. The Northeast Region Traffic Unit will review the proposed message and either approve the message or make necessary changes.

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. Construction Staging.

A general description of the construction staging plan as follows:

Stage 1 – 8th Street to Maritime Drive

Close Waldo Blvd to through traffic from the east side of 8th Street to Maritime Drive at the start of the stage. Based on staging plans, maintain single lane two-way traffic for along Maritime Drive/Memorial Drive at all times.

Stage 2 – 14th Street to 8th Street

Close Waldo Blvd to through traffic from the east side of 14th Street to east side of 8th Street at the start of the stage. Based on staging plans, maintain a single lane of traffic for southbound 11th Street at all times, except for allowable full intersection closure as noted in traffic section.

6. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying IH 43, USH 10, USH 151, and STH 42 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 24, 2019 to 6:00 AM Tuesday, May 28, 2019 for Memorial Day;
- From noon Wednesday, July 3, 2019 to 6:00 AM Monday, July 8, 2019 for Independence Day;
- From noon Friday, August 30, 2019 to 6:00 AM Tuesday, September 3, 2019 for Labor Day.

stp-107-005 (20181119)

7. Utilities.

Project 1500-37-74

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

stp-107-066 (20080501)

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

AT&T Wisconsin (communication line) has underground facilities throughout the project limits. Prior to construction (Fall 2018/Winter 2019 unless noted otherwise) AT&T will perform the following:

- Lower the existing ducts from Station 136+00 LT to Station 137+00 LT.
- Rebuild the existing communication manhole at Station 136'WB'+09, 16'RT.
- Raise the existing ducts from Station 136'WB'+09, RT to Station 137'WB'+47, RT.
- Shift the existing ducts north from Station 138'EB'+00, LT to Station 138'EB'+50, 3' LT.
- Rebuild the existing communication manhole at Station 148'EB'+36, 5' LT.
- Lower and shift the existing ducts at Station 9'NN'+47, LT and RT.
- Lower the existing ducts from Station 148'EB'+75 to Station 150'EB'+25, LT.

During construction AT&T will:

- Raise the existing ducts at Station 135+14, LT to accommodate the proposed storm sewer. Contact AT&T 5 working days prior to installation of storm sewer in this area. AT&T anticipates raising the ducts will take 1 working day.
- Shift the existing ducts at Station 135+36, LT to accommodate the proposed storm sewer. Contact AT&T 5 working days prior to storm sewer installation in this area. AT&T anticipates the relocation will take 3 working days.
- Shift the existing ducts at Station 142'EB'+19, 1.5' LT to accommodate the proposed storm sewer. Contact AT&T 5 working days prior to storm installation in this area. AT&T anticipates the relocation will take 2 working days.
- Shift the existing ducts at Station 143'EB'+75, 1.5' LT to accommodate the proposed storm sewer. Contact AT&T 5 working days prior to storm installation in this area. AT&T anticipates the relocation will take 2 working days.
- Shift the existing ducts at Station 145'EB'+70, 1.5' LT to accommodate the proposed storm sewer. Contact AT&T 5 working days prior to storm installation in this area. AT&T anticipates the relocation will take 2 working days.
- Adjust communication manhole covers at: Station 134'WB'+75, LT; Station 136'WB'+09, RT (chimney will also be rebuilt); Station 141'EB'+05, LT; Station 142'WB'+30, LT; Station 148'EB'+36, RT; Station 151'EB'+63, LT. Contact AT&T 5 working days prior to needing the manholes adjusted. AT&T anticipates manhole adjustments to take 1 working day each to complete.
- AT&T will provide on-site monitoring of construction operations and have forces available to support and/or protect their facilities in necessary for proposed underground work between the USH 10/9th Street and USH 10/8th Street intersections. Contact AT&T 5 working days prior to installing underground features in this location.

The field contact is Joe Kassab, 205 S. Jefferson Street, Green Bay, WI 54301; Telephone: (920) 433-4200; Mobile Telephone: (920) 202-4002; Email: jk572k@att.com.

City of Manitowoc (sewer) has underground facilities throughout the project limits. Sewer work will be completed during construction under Project 1500-37-75 as shown in the project plans.

The field contact is Greg Minikel, P.E., 900 Quay Street, Manitowoc, WI 54220; Telephone: (920) 686-6910; Mobile Telephone: (920) 374-0411; Email: gminikel@manitowoc.org.

Comcast (communication line) has overhead facilities throughout the project limits located on poles owned by Manitowoc Public Utilities. Prior to construction (Summer/Fall 2018) Comcast will relocate its facilities in conjunction with Manitowoc Public Utilities relocations.

The field contact is Bob Peronto, P.O. Box 429, Manitowoc, WI 54221; Telephone: (920) 482-5561; Mobile Telephone: (920) 374-0309; Email: Robert_peronto@cable.comcast.com.

Manitowoc Public Utilities (communication line) has overhead facilities throughout the project limits. Prior to construction (Summer/Fall 2018) Manitowoc Public Utilities will be relocating utility poles to locations out of conflict, typically in close proximity to the existing facilities.

During construction Manitowoc Public Utilities will hold poles to facilitate roadway construction operations. If excavation exceeds 2-ft below the existing surface and within 5-ft of an existing utility pole, contact Manitowoc Public Utilities 3 working days prior to needing the pole held.

The field contact is Bob Bouril, 1540 Dewey Street, Manitowoc, WI 54220; Telephone: (920) 686-4335; Mobile Telephone: (920) 973-7126; Email: bbouril@mpu.org.

Manitowoc Public Utilities (electricity) has overhead facilities throughout the project limits. Prior to construction (Summer/Fall 2018) Manitowoc Public Utilities will be relocating utility poles to locations out of conflict, typically in close proximity to the existing facilities.

During construction Manitowoc Public Utilities will hold poles to facilitate construction operations. If excavation exceeds 2-ft below the existing surface and within 5-ft of an existing utility pole, contact Manitowoc Public Utilities 3 working days prior to needing the pole held. During construction, Manitowoc Public Utilities will shield existing electrical facilities as necessary to facilitate construction operations (including, but not limited to traffic signal removal/replacement). Contact Manitowoc Public Utilities 3 working days prior to needing electrical facilities shielded.

The field contact is Bob Bouril, 1540 Dewey Street, Manitowoc, WI 54220; Telephone: (920) 686-4335; Mobile Telephone: (920) 973-7126; Email: bbouril@mpu.org.

Manitowoc Public Utilities (water) has underground facilities throughout the project limits. Water facility work will be completed during construction under project 1500-37-75 as shown in the project plans.

Additionally, Manitowoc Public Utilities will be replacing water service connections from the proposed curb stop to the adjacent building structures during construction. Contact Manitowoc Public Utilities a minimum of 5 working days prior to individual curb stop installations to allow Manitowoc Public Utilities to coordinate replacement of the service connections.

The field contact is Robert Michaelson, 1303 S. 8th Street, Manitowoc, WI 54220; Telephone: (920) 686-4354; Mobile Telephone: (920) 374-0959; email: rmichaelson@mpu.org.

PaeTec Communications, LLC (communication line) has an underground fiber optic line along the west side of N. 8th Street throughout the project limits. During construction PaeTec Communications, LLC will have representatives on-site during ground disturbing activities at the USH 10/8th Street intersection to monitor, support, protect, and move their facilities as needed to accommodate the proposed roadway work. Contact PaeTec Communications, LLC 3 working days prior to beginning ground disturbing activities at the USH 10/8th Street intersection so a fiber watch can be in place during the work.

The field contact is Dennis Ruess, 1858 Wright Street, Madison, WI 53704; Mobile Telephone: (920) 512-5587; Email: dennis.ruess@windstream.com.

Wisconsin Public Service (gas/petroleum) has underground facilities throughout the project limits. Prior to construction (Spring/Summer/Fall 2018) WPS will discontinue the existing facilities in place and place new gas facilities, typically at a depth of 3-ft to 5-ft, in the following general locations along USH 10/Waldo Blvd.

- Station 93+80 to Station 152+25 below the south sidewalk. Gas main facilities will cross USH 10 at the following approximate locations: Station 134+35, Station 137+90, and Station 148+60. Side road main crossings will typically follow the USH 10 sidewalk alignment, except where the gas main facilities will cross outside of the construction limits at the following side roads: N. 11th St. and N. 8th St.
- Station 137+90 to Station 141+25 and Station 148+60 to Station 151+25 below the north sidewalk.

The field contact is Mike Lowther, 933 S. Wildwood Avenue, Sheboygan, WI 53081; Mobile Telephone: (920) 849-7903.

During relocations, Wisconsin Public Service identified several areas (listed below) where gas facilities could not be installed at planned depths due to conflicts with existing sewer and/or existing utilities. Contact Dan Conner at (920) 657-1862 (telephone) or (920) 655-6042 (mobile) two working days prior work in these areas, if conflict with proposed work is anticipated, and Wisconsin Public Service will relocate the gas facilities concurrent with roadway construction operations.

- 134+50 – 4-inch plastic main crossing USH 10 west of Menasha Avenue (depth<4-feet)
- 145+25 – 8-inch plastic main crossing N. 10th St. south of USH 10 (depth<3.5-feet)
- 148+50 – 8-inch plastic main crossing N. 9th St. south of USH 10 (depth<3.5')

Project 1500-37-75

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

stp-107-066 (20080501)

All utilities within the construction limits of Project 1500-37-75 were coordinated under Project 1500-37-74. There are no other known utility conflicts within the construction limits.

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

Project 4570-12-71

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

stp-107-066 (20080501)

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

AT&T Wisconsin (communication line) has overhead facilities within the project limits located on poles owned by Manitowoc Public Utilities. Prior to construction (Summer/Fall 2018) AT&T Wisconsin will relocate its facilities in conjunction with Manitowoc Public Utilities relocations.

The field contact is Joe Kassab, 205 S. Jefferson Street, Green Bay, WI 54301; Telephone: (920) 433-4200; Mobile Telephone: (920) 202-4002; Email: jk572k@att.com.

Central Brown County Water Authority (water) has a 48-in water transmission main along the east side of STH 42/Memorial Dr./Maritime Dr. No conflicts are anticipated. If any trenchless work is anticipated within 24-inches of the Central Brown County Water Authority (CBCWA) water transmission main, contact the CBCWA 7 working days prior to the work. CBCWA will pothole and expose the water transmission main to facilitate the trenchless work.

The field contact is Robert Michaelson, 1303 S. 8th Street, Manitowoc, WI 54220; Telephone: (920) 686-4354; Mobile Telephone: (920) 374-0959; email: rmichaelson@mpu.org.

City of Manitowoc (sewer) has underground facilities throughout the project limits. Sewer work will be completed during construction under Project 4570-12-72 as shown in the project plans.

The field contact is Greg Minikel, P.E., 900 Quay Street, Manitowoc, WI 54220; Telephone: (920) 686-6910; Mobile Telephone: (920) 374-0411; Email: gminikel@manitowoc.org.

Comcast (communication line) has overhead facilities throughout the project limits located on poles owned by Manitowoc Public Utilities. Prior to construction (Summer/Fall 2018) Comcast will relocate its facilities in conjunction with Manitowoc Public Utilities relocations.

The field contact is Bob Peronto, P.O. Box 429, Manitowoc, WI 54221; Telephone: (920) 482-5561; Mobile Telephone: (920) 374-0309; Email: Robert_peronto@cable.comcast.com.

Manitowoc Public Utilities (electricity) has overhead facilities throughout the project limits. Prior to construction (Summer/Fall 2018) Manitowoc Public Utilities will be relocating utility poles to locations out of conflict.

During construction Manitowoc Public Utilities will hold poles to facilitate construction operations. If excavation exceeds 2-feet below the existing surface and within 5-feet of an existing utility pole, contact Manitowoc Public Utilities 3 working days prior to needing the pole held. Contact Manitowoc Public Utilities 7 working days prior temporary pavement placement in advance of Stage 1A – Phase 2 and 7

working days prior to Stage 1A – Phase 3 at the STH 42/Maritime Drive roundabout to coordinate the placement and removal of temporary utility poles needed during that stage. Manitowoc Public Utilities anticipates placement and removal of the temporary poles will require 1 working day per event.

The field contact is Bob Bouril, 1540 Dewey Street, Manitowoc, WI 54220; Telephone: (920) 686-4335; Mobile Telephone: (920) 973-7126; Email: bbouril@mpu.org.

Manitowoc Public Utilities (water) has underground facilities throughout the project limits. Water facility work will be completed during construction under project 4570-12-72 as shown in the project plans.

Additionally, Manitowoc Public Utilities will be replacing water service connections from the proposed curb stop to the adjacent building structures during construction. Contact Manitowoc Public Utilities a minimum of 5 working days prior to individual curb stop installations to allow Manitowoc Public Utilities to coordinate replacement of the service connections.

Prior to construction, Manitowoc Public Utilities will relocate the existing hydrant at Station 187'EB'+38, RT to the south outside of the proposed roadway limits and install watermain along Bay Shore Drive at the STH 42/Maritime Drive intersection.

The field contact is Robert Michaelson, 1303 S. 8th Street, Manitowoc, WI 54220; Telephone: (920) 686-4354; Mobile Telephone: (920) 374-0959; email: rmichaelson@mpu.org.

Net Lec LLC (communication line) has underground fiber optic facilities along the east side of STH 42/Memorial Dr./Maritime Dr. The fiber optic lines are above and out of conflict with the removal and replacement of the storm sewer outfalls along Lake Michigan. Contact Net Lec LLC 7 working days prior to removal and replacement of the storm sewer outfalls so a fiber watch can be in place during the work.

The field contact is Dennis LaFave, 1700 Industrial Drive, Green Bay, WI 54302; Mobile Telephone: (920) 619-9774; Email: dlafave@mi-tech.us.

PaeTec Communications, LLC (communication line) has an underground fiber optic line adjacent to the project limits. No conflicts are anticipated.

The field contact is Dennis Ruess, 1858 Wright Street, Madison, WI 53704; Mobile Telephone: (920) 512-5587; Email: dennis.ruess@windstream.com.

Wisconsin Public Service (gas/petroleum) has underground facilities throughout the project limits. Prior to construction (Spring/Summer/Fall 2018) WPS will discontinue the existing facilities in place and place new gas facilities, typically at a depth of 3-ft to 5-ft, in the following general locations along STH 42/Waldo Blvd.

- Station 152+25 to Station 186+50 along the south side of the roadway. A main crossing will be located at Station 160+15. Side road main crossings will be within the construction limits, except at N. 6th St. where the crossing will be outside of the construction limits.
- Station 152+15 to Station 156+00 below the north sidewalk. The main crossing of Lincoln Blvd. will cross outside of the construction limits.

The field contact is Mike Lowther, 933 S. Wildwood Avenue, Sheboygan, WI 53081; Mobile Telephone: (920) 849-7903.

During relocations, Wisconsin Public Service identified several areas (listed below) where gas facilities could not be installed at planned depths due to conflicts with existing sewer and/or existing utilities. Contact Dan Conner at (920) 657-1862 (telephone) or (920) 655-6042 (mobile) two working days prior work in these areas, if conflict with proposed work is anticipated, and Wisconsin Public Service will relocate the gas facilities concurrent with roadway construction operations.

- 167+50 – 1-inch plastic service crossing STH 42 to property address 320 Waldo Blvd. (depth<3-feet)
- 168+50 – 1-inch plastic service crossing STH 42 to property address 310 Waldo Blvd. (depth<3-feet)

Project 4570-12-72

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

stp-107-066 (20080501)

All utilities within the construction limits of Project 4570-12-72 were coordinated under Project 4570-12-71. There are no other known utility conflicts within the construction limits.

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

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

Both the department and City of Manitowoc (Sanitary Sewer) and Manitowoc Public Utilities (Water main) personnel will inspect construction of sanitary sewer and water main under this contract. However, construction staking, testing, and acceptance of the sanitary sewer and water main construction will be by the City of Manitowoc (Sanitary Sewer), and Manitowoc Public Utilities (Water main).

9. Referenced Construction Specifications.

Construct the work enumerated below conforming to the Standard Specification for Sewer and Water Construction in Wisconsin, Sixth Edition and City of Manitowoc Standard Specifications for Public Works Construction <http://www.manitowoc.org/386/Standard-Specifications>. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

Sanitary Sewer

stp-105-002 (20130615)

10. Sanitary Sewer Utility Record Drawings.

The City of Manitowoc will be maintaining record drawings during construction.

11. Water Main Utility Record Drawings.

Keep a current set of plans at the project that are marked to show the location of installed underground utilities. Accurately record the location of valves, fittings, service lines, and field changes for water main work. Dimension utilities from permanent reference points; record vertical distances. Submit record drawings to Manitowoc Public Utilities upon completion of work.

Record drawing work will be incidental to the items of water main bid items.

12. General Sanitary Sewer Construction.

Backfill trenches for sanitary sewer with excavated native material, unless the excavated native material is unsuitable for backfill as directed by the engineer. Consolidate the backfill by mechanical compaction to 90% Modified Proctor Density. Excavate and dispose of unsuitable material when directed by the engineer. Provide and place Imported Sanitary Sewer Trench Backfill when directed by the engineer.

13. General Water Main Construction

Manitowoc Public Utilities (MPU) will furnish all materials unless specifically noted on the plans or contract documents, except for water service piping; the contractor shall provide all water service piping. Pick up all materials from the MPU material storage area (1520 Dewey Street, Manitowoc), unless other arrangements have been approved. Any materials damaged or lost during construction will be replaced at contractor's expense.

Materials to be provided by Manitowoc Public Utilities

- Ductile Iron Pipe
- Ductile Iron fittings including all bolts
- Mega lug restraints including all bolts

- Fire Hydrants – Waterous Pacer
- Gate Valves and Valve boxes – AMERICAN Series 2500 with Adaptor Valve boxes.
- Corporation stops – AY McDonald
- Curb stops and boxes – AY McDonald

If additional information is needed about the materials provided Manitowoc Public Utilities, contact Robert Michaelson, Telephone: (920) 686-4354; Mobile Telephone: (920) 374-0959; email: rmichaelson@mpu.org.

14. Work by Others.

Wiring of street lighting from pull box to pull box will be completed by Manitowoc Public Utilities. Coordinate with Steve Bacalzo, (920) 686-4310.

Manitowoc Public Utilities will provide power feed to meter breaker panel at the new signals. Coordinate with City of Manitowoc Mark DeZeeuw at (920) 686-6517 and Manitowoc Public Utilities Steve Bacalzo at (920) 686-4310.

15. Railroad Insurance and Coordination - Wisconsin Central Ltd (CN).

A Description

Comply with standard spec 107.17 for all work affecting Wisconsin Central Ltd (CN) 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 Wisconsin Central Ltd and Its Parents (CN).

Notify evidence of the required coverage, and duration to Jackie Macewicz, Manager Public Works; 1625 Depot Street, Stevens Point, WI 54481; Telephone (715) 345-2503; E-mail: Jackie.macewicz@cn.ca.

Also send a copy to the following: Jared Kinziger, NC Region Railroad Coordinator; 944 Vanderperren Way, Green Bay, WI 54304; Telephone (920) 492-7713; E-mail: jared.kinziger@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 1500-37-74
- Project Location: Manitowoc, Wisconsin
- Route Name: USH 10, Waldo Blvd
- Crossing ID: Not at a crossing
- Railroad Subdivision: Manitowoc
- Railroad Milepost: 79.00
- Work Performed: Build temporary EMS road/railroad crossing on industrial lead track west of main track and north of USH 10.

A.2 Train Operation

There are no through freight trains. There is minimal (less than once per month) switch trains. The railroad customer is serviced on an as needed basis with a train speed of 10 mph or less.

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

Construction Contact

Jackie Macewicz, Manager Public Works; 1625 Depot St., Stevens Point, WI 54481; Telephone (715) 345-2503; E-mail jackie.macewicz@cn.ca for consultation on railroad requirements during construction.

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

Flagging Contact

Submit by US Mail a "Request for Flagging Services and Cable Location" form with prepayment to: Mary Ellen Carmody, CN, 24002 Vreeland Road, Flat Rock, MI 48134; Telephone (734) 783-4533. The form can be obtained at:

<https://www.cn.ca/en/delivering-responsibly/safety/erailsafe/utility-installations>

Requests for flagging and cable locates can take up to five business days after the railroad receives the paperwork. Reference the Wisconsin Milepost and Subdivision located in A.1. Advise Ms. Carmody that the flagging services are to be billed at the rate for a public highway project.

Cable Locate Contact

In addition to contacting Diggers Hotline, follow the procedure listed under Flagging Contact.

Wisconsin Central Ltd (CN) will only locate railroad owned facilities 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. Construct a crossing surface as agreed to between the City and the Railroad. Coordinate construction with the railroad and the City to ensure the terms of said agreement are adhered to.

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.

A.6 Rail Security Awareness and Contractor Orientation

All employees of contractors who work on CN properties are required to have minimum CN Safety and Security Awareness training. This training can be obtained by registering and following the CN link through www.contractororientation.com. This training is good for a period of one year.

- a. Exception: CN has exempted from this training those it classifies as "Delivery Persons". Delivery Persons include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

The security awareness and contractor orientation certification must be renewed for projects that will carry over beyond the one year period. Contractor and subcontractor employees shall wear the identification badge issued by www.contractororientation.com when on railroad right-of-way. Costs associated with training and registration are incidental to other items in the contract.

stp-107-026 (20170615)

16. 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 Brian Haen at (920) 366-4788. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

17. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Brian Haen at (920) 366-4788.

stp-107-054 (20080901)

18. Construction Over or Adjacent to Navigable Waters.

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

stp-107-060 (20171130)

19. Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.

John Roelke, License Number All-119523, inspected Structure B-36-0900 for asbestos on August 19, 2015. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Brian Haen, (920) 366-4788.

In accordance with NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Brian Haen, (920) 366-4788 and DOT BTS-ESS attn: Hazardous Materials Specialist, PO Box 7965, Madison, WI. 53707-7965. In addition, comply with all local or municipal asbestos requirements.

Use the following information to complete WisDNR form 4500-113:

- Site Name: Structure B-36-0900, STH 42 over Little Manitowoc River.
- Site Address: 0.7M N JCT USH 10 TO E
- Ownership Information: City of Manitowoc, 900 Quay St, Manitowoc, WI 54220
- Contact: Brian Haen
- Phone: (920) 366-4788
- Age: 85 years old. This structure was constructed in 1934.
- Area: 3,432 SF of deck

Insert the following paragraph in Section 6.g.:

- If asbestos not previously identified is found or previously non-friable asbestos becomes crumbled, pulverized, or reduced to a powder, stop work immediately, notify the engineer, and the engineer will notify the department's Bureau of Technical Services at (608) 266-1476 for an emergency response as specified in standard spec 107.24. Keep material wet until it is abated or until it is determined to be non-asbestos containing material.

stp-107-125 (20120615)

20. Erosion Control Structures.

Within seven calendar days after beginning work on the bridge superstructure, place all permanent erosion control devices, including riprap, erosion mat, ditch checks, seed, fertilizer, mulch, soil stabilizer, or any other item required by the contract or deemed necessary by the engineer. These devices shall be in place in the area under the bridge and on both sides of the roadway, from the waterway to a point 100-feet behind the backwall of the abutment. Within said limits, place these devices to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs. Before initial construction operations, place turbidity barriers, silt screens, and other temporary erosion control measures as the plans show, and remove them after the permanent erosion control devices are in place unless directed otherwise by the engineer.

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.

stp-107-070 (20030820)

21. Environmental Protection, Little Manitowoc River.

The Little Manitowoc River is an Area of Special Natural Resource Interest (ASNRI) Ensure that no sediment or construction debris reach the Little Manitowoc River or adjacent wetlands during construction. Proper installation and maintenance of erosion control measures is required.

22. Environmental Protection, Historic Properties.

The house at 505 Waldo Blvd is eligible for the National Historic Register. Station 163+37 EB RT to Station 163+85 EB RT. The historic boundary extends into the existing right-of-way.

Houses at 711 Waldo Blvd, 1025 Lincoln Blvd, 1030 Lincoln Blvd, 1103 Lincoln Blvd, and 1104 Lincoln Blvd are considered part of Lincoln Blvd Historic District. This historic district is eligible for the National Historic Register. Station 153+33 EB RT to Station 157+19 EB RT and Station 154+32 EB LT to Station 157+98 EB LT. The historic boundary extends into the existing right-of-way.

The Holy Innocents Parish Complex at 1121 N 14th Avenue and 1408 Waldo Blvd is eligible for the National Historic Register. Station 128+75 EB LT to Station 134+34 EB LT. The historic boundary extends into the existing right-of-way.

The Woodrow Wilson Junior High School at 1201 N 11th Street is eligible for the National Historic Register. Station 141+88 EB LT to Station 148+03 EB LT. The historic boundary extends into the existing right-of-way.

Contain all construction activities within the slope intercepts within these parcels. Do not stockpile materials or drive or park construction vehicles beyond the slope intercepts.

23. Environmental Protection, Aquatic Exotic Species Control.

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

<http://dnr.wi.gov/topic/invasives/disinfection.html>

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or invested waters; and
4. Disinfect your boat, equipment and gear by either:
 - 4.1. Washing with ~212 F water (steam clean), or
 - 4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
 - 4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore this disinfect should be used in conjunction with a hot water (>104° F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site.

stp-107-055 (20130615)

24. Environmental Protection, Dewatering.

Supplement standard spec 107.18 as follows:

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice prior to discharge. The means and methods proposed to be used during construction shall be submitted for approval as part of the Erosion Control Implementation Plan for dewatering at each location it is required. The submittal shall also include the details of how the intake will be managed to not cause an increase in the background level turbidity prior to treatment and any additional erosion controls necessary to prevent sediments from reaching the project limits or wetlands and waterways. Guidance on dewatering can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dewatering Code

#1061, "Dewatering". This document can be found at the WisDNR website:
http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

The cost of all work and materials associated with water treatment and/or dewatering is incidental to the bid items the work is associated.

25. Environmental Protection, By-Pass Pumping

Supplement standard spec 107.18 as follows:

If by-pass pumping is required, the means and methods proposed to be used during construction shall be submitted for approval as part of the Erosion Control Implementation Plan for each location it is required. The submittal shall include how the intake will be managed to not cause an increase in the background level turbidity during pumping; equipment pumping rate capabilities; discharge energy dissipation; and erosion controls. For by-pass pumping that will extend beyond one working day, the submittal should also include how the work zone will be managed and protected should the pump fail; be shut down due to unacceptable water quality; or storm water flows exceed the pumping rate of equipment. After setup of the approved by-pass pumping operation, the contractor shall demonstrate that the means and methods will pump the water at an acceptable water quality prior to starting work that necessitates the by-pass pumping. The cost of all work and materials associated with by-pass pumping is incidental to the bid items the work is associated with. Erosion control devices beyond the discharge energy dissipation point will be paid for at the contract unit prices for the items that are included in the plan.

(NER 11-0711)

26. Environmental Protection, Dust Control

Supplement standard spec 107.18 as follows:

Control dust during construction. Use of bid items of Dust Control Surface Treatment and Water for minimizing dust levels.

In addition, guidance on dust control can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dust Control On Construction Sites #1068. This document can be found at the WisDNR website:
http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

Use street sweeping as noted in other sections for paved surfaces.

27. Environmental Protection, Emerald Ash Borer.

The emerald ash borer (EAB) has resulted in a quarantine of ash trees (*Fraxinus*, sp) by the Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) and the Wisconsin Department of Natural Resources (DNR).

Ash trees include the following species:

Green ash (*F. pennsylvanica*) is found throughout the state, but is most common in southern Wisconsin. It may form pure stands or grow in association with black ash, red maple, swamp white oak, and elm. It grows as an associate in upland hardwood stands, but is most common in and around stream banks, floodplains, and swamps.

Black ash (*F. nigra*) is distributed over the entire state but is most frequently found in northern Wisconsin. It is most common in swamps, but is also found in other wet forest types.

Blue ash (*F. quadrangulata*) is a threatened species that is currently found only at a few sites in Waukesha county. The species is at the edge of its range in Wisconsin, but is common in states farther south. The species is not of commercial importance.

Mountain ash (*Sorbus Americana* and *S. decora*) is not a true ash and is not susceptible to EAB infestation.

Follow and obey the following Wisconsin Department of Agriculture, Trade, and Consumer Protection order:

ATCP 21.17 Emerald ash borer; import controls and quarantine.

IMPORTING OR MOVING REGULATED ITEMS FROM INFESTED AREAS; PROHIBITION. Except as provided in sub. (3), no person may do any of the following:

(a) Import a regulated item under sub. (2) into this state if that item originates from an emerald ash borer regulated area identified in 7CFR 301.53-3.

(b) Move any regulated item under sub. (2) out of an emerald ash borer regulated area that is identified in 7CFR 301.53-3 and located in this state.

Note: the United States Department of Agriculture-Animal and Plant Health Inspection Service (USDA-APHIS) periodically updates the list of regulated areas in 7CFR 301.53-3. Subsection (1) applies to new regulated areas as those areas are identified in the CFR.

REGULATED ITEMS. The following are regulated items for purposes of sub. (1):

the emerald ash borer, *Agrilus planipennis* (Fairmaire) in any living stage.

Ash trees.

Ash limbs, branches, and roots.

Ash logs, slabs or untreated lumber with bark attached.

Cut firewood of all non-coniferous species.

Ash chips and ash bark fragments (both composted and uncomposted) larger than one inch in diameter.

Any other item or substance that may be designated as a regulated item if a DATCP pest control official determines that it presents a risk of spreading emerald ash borer and notifies the person in possession of the item or substance that it is subject to the restrictions of the regulations.

Regulatory Considerations

The quarantine means that ash wood products may not be transported out of the quarantined area.

If ash trees are identified within clearing and grubbing limits of the Project, the following measures are required for the disposal:

Chipped ash trees

May be left on site if used as landscape mulch within the project limits.

May be buried on adjacent properties to projects within the quarantined zone with prior approval of the engineer according to standard spec 201.3 (15).

May be trucked to a licensed landfill within the quarantined zone with the engineer's approval according to standard spec 201.3 (15).

Burning chips is optional if in compliance with standard spec 201.3.

Chips must be disposed of immediately and may not be stockpiled.

Chipper equipment must be cleaned following post-chipping activities to ensure no spread of wood chip debris into non-quarantined counties.

Ash logs, branches, and roots

May be buried without chipping within the existing right-of-way or on adjacent properties according to standard spec 201.3 (14)(15).

May be trucked to a licensed landfill within the quarantined zone with the engineer's approval according to standard spec 201.3 (15).

Burning is optional if in compliance with standard spec 201.3.

Ash logs, branches, and roots must be disposed of immediately and may not stockpiled.

All additional costs will be incidental to clearing and grubbing items.

Anyone moving firewood or ash products from the state or these counties is subject to state and federal fines up to \$1,000.00. All fines are the responsibility of the contractor. Obtain updated quarantine information at the DNR Firewood Information Line at 1-800-303-WOOD.

Updates for compliance

Each year, as a service, the Wisconsin Department of Agriculture, Trade and Consumer Protection distributes an updated federal CFR listing to nursery license holders and other affected persons in this state. More frequent updates, if any, are available on the department's website at **www.datcp.state.wi.us**. Subsection (1) applies to new regulated areas as those areas are identified in the CFR, regardless of whether affected persons receive update notices from the department. Persons may request update notices by calling **(608) 224-4573**, by visiting the department's website, or by writing to the following address:

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
P.O. Box 8911
Madison WI 53708-8911

(2) REGULATED ITEMS. More frequent updates, if any, are available on the department's website at **www.datcp.state.wi.us**. Subsection (1) applies to new regulated areas as those areas are identified in the CFR, regardless of whether affected persons receive update notices from the department. Persons may request update notices by calling **(608) 224-4573**, by visiting the department's website, or by writing to the above address.

(NER11-03088)

28. Hauling Restrictions.

Do not haul materials of any kind on any local roads without approval of the local maintaining authority and the department. Any proposals to haul on local roads will be by a written agreement with the respective maintaining authority. Submit the agreement to the department from the maintaining authority prior to hauling. Contact the respective maintaining authority prior to bidding for approval of haul routes.

Use only City of Manitowoc designated truck routes for material haul roads within city limits.

29. Coordination with Businesses and Residents.

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

stp-108-060 (20141107)

30. Notice to Contractor – Federal Aviation Administration

The project corridor is located in close proximity to the Manitowoc County Airport. Notify the Federal Aviation Administration, and if necessary file a notice for construction with the agency a minimum of 30 days prior to construction to determine any restrictions, procedures or requirements for construction equipment and activities.

31. Notice to Contractor – United States Postal Service.

The United States Postal Service (USPS) maintains front door deliveries within the project

limits. The Manitowoc USPS office is responsible for coordinating postal deliveries and has been notified about the project. Contact the post master David Houle at (920) 682-6166 two weeks prior to construction to notify them about changes in access.

32. Notice to Contractor – Maritime Metro Transit.

Maritime Metro Transit has multiple route and stops within the project limits. Contact Jim Muenzenmeyer, Transit/Buildings and Grounds Division Manager at (920) 686-3560 three weeks prior to the closures to coordinate their detour route and removal of route signs.

33. Notice to Contractor – Garbage and Recycling Pickup.

Coordinate with the City of Manitowoc haulers prior to starting construction to determine access to properties for garbage and recyclables pickups. Allow access to properties for collection or provide alternate access through coordination with the haulers. Contact two weeks prior to the start of construction.

There are two haulers that serve the City of Manitowoc

- Pozorski Hauling - Contact Mike Pozorski, 920-682-3544, phr1onviebahn@yahoo.com.
- Waste Management – Contact Brian Thome. 888-960-008, bthome@wm.com.

34. Notice to Contractor – Street Sweeping.

All street sweeping due to contractors hauling operations is considered incidental to the contract. The contractor is responsible in keeping all public roadways clean and free from dirt and debris at all times. For this work provide a self-contained mechanical or air conveyance street sweeper and dispose the accumulated material.

35. Notice to Contractor – Geotechnical Investigation.

For a copy of geotechnical investigations within the project area contact WisDOT Project Manager, Brian Haen at 920-366-4788.

36. Notice to Contractor – Storm Water Drainage.

Maintain storm water drainage throughout the project. Waldo Blvd storm sewer controls drainage basins outside of the construction area, at end of the work day temporary storm sewer connections may be necessary between old storm sewer and new storm sewer to maintain drainage depending on means and methods and location of work being completed. Coordinate with the engineer and the City of Manitowoc to ensure drainage issues outside the work area are not created.

The existing storm sewer main within Waldo Blvd between Menasha Avenue and the existing outfall at the Little Manitowoc River, including storm sewer north of Waldo Blvd between 11th Street and Lincoln Blvd must stay active until the new storm sewer is installed past Menasha Ave. This only to storm sewer main. Depending on construction operations it may be chosen to use other techniques maintain this drainage including temporary connections, bypass pumping, etc. If another technique is used to maintain drainage other than the existing storm sewer main, approval in writing from the City of Manitowoc is required.

37. Notice to Contractor – Emergency Vehicle Railroad Crossing.

As part of the project construction of an Emergency Vehicle Railroad Crossing will be provided as shown in the plan. This temporary railroad crossing is for City of Manitowoc emergency vehicle use only and may not be used by the public or contractor.

Place sign R5-11 “Authorized Vehicle Only” sign on each side of the crossing with two type III barricades offset at the completion of the crossing.

38. Notice to Contractor – Buried Cattle Pass, Station 161+35.

At approximately Station 161+35 a 10'x6.5' cattle pass exists. During previous roadway construction, the cattle pass was abandoned with the top possibly removed. It is anticipated that this cattle pass will conflict with new storm sewer. Removal of this cattle pass to the extent necessary for storm sewer installation will be paid for under the item of Removing Buried Cattle Pass, Station 161+35, Item SPV.0035.02. The remaining structure can remain after installation of storm sewer. No as-constructed or abandonment plans exist.

39. Notice to Contractor – Material Storage.

City of Manitowoc has agreed to allow storage of materials or equipment in city right-of-way that is located between Clermont Street, Waldo Blvd, Elm Street, and 18th Street. Storage of materials or equipment will not impact traffic or pedestrians. Restore lawn turf areas to their preconstruction condition at contractor's

expense outside of grading limits. Do not drive on Clermont Street to pick up and deliver materials. Do not storage any materials on Clermont Street or block parking for adjacent residents on Clermont Street.

40. Notice to Contractor, Available Space for Concrete Paving.

Existing and relocated power poles may restrict the space available for concrete paving, resulting in areas where less than 3.5-feet is provided between the back of the curb and a vertical obstruction. Integral curb will still be required in these areas.

41. Notice to Contractor – Private Water Service Lead Pipe Replacement

In coordination with the project, per the City of Manitowoc ordinances, lead water services between the new curb stop and the house must be replaced. Therefore, Manitowoc Public Utilities will be coordinating with property owner to make them aware of this. It is anticipated that Manitowoc Public Utilities will supply property owners with a list of plumbers/contractors and costs to provide this service. It is ultimately up to the property owner to select and pay the cost for this work.

Coordination will be required for this private work. Coordination will consist of the following:

- Provide Manitowoc Public Utilities a minimum of 5 working days prior notice of individual curb stop installations to allow Manitowoc Public Utilities to coordinate replacement of the service connections. Manitowoc Public Utilities will contact the property owners and their selected plumber/contractor to notify them of the intended timelines.
- After completion of water service and reconnection of the service to the house, leave trench around the curb stop open for a minimum of 3 working days to allow the private work to be completed. Provide access to the plumber/contractor to complete the private water service replacement between the curb stop and the home.
- At the end of the 3 working days the trench can be backfilled even if the private work is not completed. Protect the trench from the public during the days the trench is open. This work is incidental to the cost of Water Service Pipe 1 1/4-Inch.
- Maintain pedestrian access on at least one side of the roadway at all times when there is an open trench or provide alternate path around the trench. If alternative path option is chosen over using the opposite side of the roadway, cost for providing this alternative access is incidental to the cost of Water Service Pipe 1 1/4-Inch.

After completion of water service work, if it is planned for the sidewalk in that location is or will be a pedestrian access route, patch missing sidewalk with the bid item of Temporary Pedestrian Surface Asphalt, Temporary Pedestrian Surface Plate, or Temporary Pedestrian Surface Plywood. This will be only paid for at completion of private work or 3 working days, whichever comes first.

42. Timely Decision Making Manual.

Use the Timely Decision Making Manual (TDM) on this contract. Coordinate with the department to modify the various published tools as necessary to meet the particular project needs and determine how to implement those tools under the contract. Ensure the full participation of the contractor and its principal subcontractors throughout the term of the contract.

Forms and associated guidance are published in the TDM available at the department's Highway Construction Contract Information (HCCI) web site at:

<https://wisconsindot.gov/rdwy/admin/tdm.doc>

stp-105-005 (20151210)

43. Preservation of Existing Trees.

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

Excavations for Sidewalk Removal and Replacement

Do not rip or pull roots out towards the trunk of a tree while excavating for sidewalk. Provide extra care to root masses that grow very close to the sidewalk during excavation. The use of an excavator, backhoe, or loader to cut roots is not acceptable. Immediately cut damaged roots over ½-inch in diameter in back of the damaged section. Make cuts with an ax, lopping shears, chainsaw, stump grinder, or other means that will produce a clean cut. Cover any exposed roots as soon as excavation and installation are complete.

44. Clearing and Grubbing.

Complete all clearing operations for the entire project at the start of construction. Once clearing operations start they must be continued until all clearing is completed.

All trees to be removed must be approved by the engineer.

Use single lane closures in areas of Stage 2 where traffic is to be maintained.

45. Removing Storm Sewer (Size), Item 204.0245.01 through Item 204.0245.09.

Supplement standard spec 204.3.2.2 with the following:

When removing storm sewer in stages, seal or block off pipe ends, openings in inlet structures and openings in manhole structures as necessary to maintain temporary drainage. All work necessary to maintain temporary drainage will be incidental to the Removing Storm Sewer item.

46. Removing or Abandoning Miscellaneous Structures.

Replace standard spec 204.3.2.2.1 (13) with the following:

Under the Removing Storm Sewer bid items, remove existing storm sewer. Backfill resulting trenches with material conforming to 608.2.2.3.

47. Abandoning Sewer, Item 204.0291.S.

A Description

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

B Materials

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

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

Payment is full compensation for furnishing all materials and excavating and backfilling where necessary.

stp-204-050 (20080902)

48. Removing Light Poles and Bases, Item 204.9060.S.01.

A Description

This special provision describes removing light poles and bases conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Light Poles and Bases as each individual unit, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Light Poles and Bases	Each
stp-204-025 (20150630)		

49. Backfill Controlled Low Strength, Item 209.0200.S.

A Description

This special provision describes furnishing and placing a controlled low strength material designed for use as backfill in trenches for culverts, sewers, utilities, or similar structures, as backfill behind bridges abutments, or as fill for the abandonment of culverts, pipes, or tanks.

B Materials

Provide controlled low strength backfill that consists of a designed cementitious mixture of natural or processed materials. Allowable materials include natural sand, natural gravel, produced sand, foundry sand, produced gravel, fly ash, Portland cement, and other broken or fragmented mineral materials. The designed mixture shall be self-leveling and shall be free of shrinkage after hardening. Design the mixture to reach a state of hardening such that it can support foot traffic in no more than 24 hours. Provide a mixture that also meets the following requirements.

TEST	METHOD	VALUE
Flow (inch)	ASTM D-6103	9 min
Compressive	ASTM D-6024	20-40 @ 14 days
Strength (psi)		40-80 @ 28 days
		80-120 @ 90 days

Chemical admixtures to control air content and setting time are allowable. Ten days before placement, furnish the engineer with a design mix detailing all components and their proportions in the mix. Also, provide documentation from the supplier of the industrial byproducts that the foundry sand and fly ash used in the mixture meet the requirements for Industrial Byproducts Categories 1, 2, 3, or 4 in NR 538 of the Wisconsin Administrative Code for use as a confined geotechnical fill.

C Construction

Place controlled low strength backfill at the locations and to the lines and grades as shown on the plan. Proportion and mix materials to produce a product of consistent texture and flow characteristics. The engineer may reject any materials exhibiting a substantial change in properties, appearance, or composition.

If the official Weather Bureau forecast for the construction site predicts temperatures at or below freezing within the next 24 hours after placement of controlled low strength backfill, protect the placed materials from freezing during that time period. If the temperature is not forecast to rise above 40° F for 72 hours after placement, the engineer may require protection from freezing for up to 72 hours.

No controlled low strength backfill shall be allowed to enter any stream, lake, or sewer system. The contractor shall be responsible for any clean up or remediation costs resulting from such occurrences.

D Measurement

The department will measure Backfill Controlled Low Strength in volume by the cubic yard of material placed and accepted. Such volume shall be computed from actual measurements of the dimensions of the area to be backfilled. In irregular or inaccessible areas, the engineer may allow volume to be determined by other appropriate methods.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
209.0200.S	Backfill Controlled Low Strength	CY

Payment is full compensation for designing the mix; supplying all materials; preparing the proportioned mix; hauling it to the construction site; placing the material; and protecting it from freezing.

stp-209-010 (20090901)

50. Protection of Concrete.

Supplement standard spec 415.3.14 as follows:

The contractor shall provide for 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 on foot 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), the necessary equipment, and materials shall be construed to be included in the contract unit price for each concrete item.

(NER11-0127)

51. Concrete Pavement 8 1/2-Inch, Item 415.0085.

Box outs of inlets into the concrete pavement is not allow in areas where concrete pavement is poured with integral curb and gutter in the median of USH 10 and STH 42.

52. Concrete Pavement Joint Layout 1500-37-74, Item 415.5110.S.01; Concrete Pavement Joint Layout 4570-12-71, Item 415.5110.S.02; Concrete Pavement Joint Layout 4570-12-72, Item 415.5110.S.03.

A Description

This special provision describes providing a concrete pavement or concrete base joint layout design for intersections 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 each intersection. 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 1500-37-74	LS
415.5110.S.02	Concrete Pavement Joint Layout 4570-12-71	LS
415.5110.S.03	Concrete Pavement Joint Layout 4570-12-72	LS

1500-37-74, 1500-37-75, 4570-12-71, 4570-12-72

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Payment is full compensation for providing the intersection 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)

53. 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)

54. 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.

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 (20170615)

55. Sheet Membrane Waterproofing for Top Slab B-36-900, Item 516.0610.S.01.

A Description

This special provision describes providing a primer, waterproofing membrane, hot rubberized sealer or mastic, or both, on the concrete top slab as the plans show.

B Materials

B.1 Waterproofing System

Provide a material in the waterproofing system that is specifically designed for use with an asphaltic concrete overlay. The membrane shall consist of a cold-applied, self-adhering membrane incorporating a heat resistant woven or non-woven fabric or fiberglass reinforcing laminated in between layers of polymer modified bitumen or SBS modified rubberized asphalt. The membrane shall have a release film, polyester or polyethylene on the down side and may have a thin spun bonded open weave polyester fabric on the up side that will bond with the asphaltic concrete overlay; yet will permit driving rubber-tired trucks, pavers and other construction vehicles on the membrane covered deck slab.

Provide a composite sheet membrane with the following properties:

Property	Test Method	Specific Value
Width		36 inch min.
Tensile Strength	ASTM D412	50 lb/inch or 700 psi min.

Thickness		60 mils to 80 mils
Puncture Resistance	ASTM E154	40 lb min.
Permeance	ASTM E96, Method B	0.05 US Perms max.
Low Temperature Pliability	ASTM D146, 1-inch Mandrel @ -25° F	No cracks or splits at 180° bend
Water Absorption	ASTM D570, 72 hours	0.25% max.
Peel Adhesion	ASTM D903	5 lb/in width min.
Crack Cycling @ -15° F, 10 cycles	ASTM C836	No cracks or splits
Compound Softening Point	ASTM D36	210° F ±20° F
Viscosity of Membrane	ASTM D4402	3500 centipoise
Rubberized Asphalt, @329° F		

Provide rubberized asphalt compound containing not more than 15% inorganic residue or filler material.

Provide primer, mastic and/or hot rubberized asphalt sealer conforming to the specified properties required by the manufacturer of the waterproofing membrane.

B.2 Materials Certification

Before membrane approval for initial submittals and/or upon reformulation of membrane material compounds, submit to the engineer a notarized certification by an independent test laboratory stating that the materials conform to the requirements of these specifications.

The certification shall include or have attached specific results of tests performed on the material supplied. The engineer may at his option require samples of any material for testing. Previously approved membranes will be provisionally accepted by manufacturer's certification on their company letterhead, but may be subject to control or approval, or both by subsequent testing.

C Construction

C.1 Application Methods

Apply materials in strict accordance to the manufacturer's instructions. In order to install the waterproofing membrane, the slab temperature shall be a minimum of 45° F and rising. Before applying the system, become acquainted with the materials specified and their handling characteristics and become thoroughly familiar with the construction procedures recommended by the manufacturer. Furnish a copy of the recommended procedures to the engineer. To establish procedures for maintaining optimum working conditions and to coordinate work related to adjacent construction, hold a pre-installation conference with a manufacturer's representative, the engineer, and other affected contractors before starting construction. To provide quality assurance that the membrane has been properly installed, a manufacturer's representative familiar with membrane installation procedures shall be present during placement of the membrane.

Finish all concrete surfaces that will be in contact with the membrane with a magnesium float finish. Provide a minimum concrete cure time of seven days before placing the primer.

The slab shall be clean, dry, and free from mud, dirt, sand, oil, or grease, and any other contaminants before application of the primer. No vehicles or equipment will be permitted on the concrete slab after surface preparation except those necessary for the installation of the waterproofing membrane. The engineer will inspect the concrete slab before the application of the primer. Do not begin application of either the primer or membrane until after the engineer grants approval.

To coat all surfaces that will be covered with the membrane, apply primer uniformly as recommended by the manufacturer. Use roller, brush, or spray to apply primer to the surfaces. If spraying is used, an approved method of protecting the environment is required.

Allow the primer to dry until tack free, approximately 45 minutes, before applying the membrane. Apply primer only to an area that will be covered with the membrane within the same calendar day. If the surface of the concrete slab becomes contaminated, clean and re-prime the area.

Apply primer to the inside face of any header to the top of the header. Take care to ensure that all inside corners are coated with primer.

After the primer has dried to a tack free condition, apply one layer of membrane to the slab starting on the low side edge.

To form a bond with the primed slab, remove the release film from the membrane on the tacky side while the membrane is rolled face down. Apply the membrane using hand methods or by using mechanical applicators. Overlap a minimum of 2.5 inches at the edges of each strip and overlap the membrane in such a manner to provide a shingling effect toward the low side of the slab cross section. Overlap a minimum of 5 inches at the ends of each strip of membrane and overlap the membrane in such a manner to provide a shingling effect toward the lower side of the slab profile. Roll the entire membrane surface with a rubber tire roller to ensure firm and uniform contact with the primed surface. Use special care to ensure that the membrane is uniformly adhered to the concrete and that the entire membrane is free of wrinkles, air bubbles, and other placement defects. In the event bubbles or blisters do form under the membrane, puncture the bubbles or blisters with a sharp pointed instrument such as an awl and press the membrane firmly into contact with the deck. Repair any membrane punctures, tears, holes, and misaligned or inadequate seams with a patch of waterproofing membrane sized as required to ensure that the membrane is watertight.

Cover the inside corners of any concrete header and all other perimeter edges with narrow strips (flashing strips of approximately 12 inches), hot rubberized sealer, or mastic according to the manufacturer's guidelines. As an additional method of ensuring a watertight bond, all terminating edges, transverse overlaps and longitudinal overlaps may be heated with a propane torch to soften the top mat and fuse the surfaces together.

The applicator foreman or leadworker shall be certified by the manufacturer of the waterproofing membrane as approved applicators, and shall be present during all applications.

C.2 Where Overlaying the Membrane Directly with Asphaltic Concrete

Construct the asphaltic concrete overlay according to scheduling requirements elsewhere in the contract. Cover all of the exposed membrane with the specified asphaltic concrete mix within five days after installation. Only rubber-tired construction vehicles shall be permitted on the membrane. Use caution not to turn the tires when a vehicle is stationary. To prevent tearing the membrane, avoid sudden starts, stops, accelerations, or decelerations. Chemical solvents, gasoline, diesel fuel, mineral spirits, etc. or other deleterious substances shall not be spilled or leaked onto the membrane. Before covering the membrane with asphaltic concrete overlay, clean the membrane of mud, dirt, sand, oil, grease, or any other contaminants, and dry the membrane. Patch contaminated areas as required by the engineer. When required to accommodate traffic control staging, the construction of the asphalt concrete overlay shall stay at least 6 inches away from the terminating edge of the membrane to provide for overlap.

The placement temperature of the asphaltic concrete shall be between 300° F and 350° F. Do not place asphaltic concrete on the membrane outside of this temperature range. The temperature of the uncompacted mat of asphaltic concrete shall not fall below 280° F before rolling. The thickness of the asphaltic concrete layers shall be as the plans show; the initial layer shall have a minimum compacted thickness of 1 1/2 inches. The membrane applicator contractor shall have a minimum of one employee present during all asphaltic concrete paving operations to ensure that all necessary membrane repairs are accomplished.

C.3 Where Not Overlaying the Membrane Directly with Asphaltic Concrete

Place a 6 inch thick layer of clean granular fill material (sand), free of any aggregate, stones or other angular materials that may puncture the membrane, over the membrane covered slab. Cover all exposed membrane with the clean granular fill within five days after installation. Only rubber-tired construction vehicles shall be permitted on the membrane. Use caution not to turn the tires when a vehicle is stationary. To prevent tearing the membrane, avoid sudden starts, stops, accelerations, or decelerations. Chemical solvents, gasoline, diesel fuel, mineral spirits, or other deleterious substances shall not be spilled or leaked onto the membrane. When required to accommodate traffic control staging, the placement of fill material shall stay at least 12 inches away from the terminating edge of the membrane to provide for overlap. The membrane applicator contractor shall have a minimum of one employee present during the placement of the clean granular fill material to ensure that all necessary membrane repairs are accomplished.

D Measurement

The department will measure Sheet Membrane Waterproofing for Top Slab (Structure), installed according to the contract and accepted, in area by the square yard. Measurement shall be based on the horizontal distance between the faces of any concrete headers and the horizontal length of membrane installed. Any material specified to be applied up vertical faces of any header or vertically down at the ends of the slab shall be included in the measured quantity.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
516.0610.S.01	Sheet Membrane Waterproofing for Top Slab B-36-900	SY

Payment is full compensation for furnishing and placing the primer, membrane, mastic, and hot rubberized asphalt sealer; and preparing the surface. Clean granular fill material (sand), where required, will be paid for using the bid item Backfill Structure.

stp-516-061 (20110930)

56. Concrete Staining B-36-900, Item 517.1010.S.01.

A Description

This special provision describes providing a two coat concrete stain on the exposed concrete surfaces of structures as the plans show.

B Materials

B.1 Mortar

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

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

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

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

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

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

C Construction

C.1 General

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

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

C.2 Preparation of Concrete Surfaces

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

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

C.3 Staining Concrete Surfaces

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

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

The color of the stain shall be as given on the plan. Tint the base coat to match the finish coat; the two coats shall be compatible with each other.

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

C.4 Test Areas

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

C.5 Surfaces to be Coated.

Apply concrete stain to the surfaces according to the plan.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S.01	Concrete Staining B-36-900	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.

stp-517-110 (20140630)

57. Architectural Surface Treatment B-36-900, Item 517.1050.S.01.

A Description

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

B Materials

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

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

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

C Construction

C.1 Equipment

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

C.2 Form Liner Preparation

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

Apply form release per manufacturer's recommendations.

C.3 Form Liner Attachment

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

C.4 Surface Finishing

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

Grind or fill pouring blemishes.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment B-36-900	SF

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

stp-517-150 (20110615)

58. Storm Sewer Pipe.

Supplement standard spec 608.3 (4) with the following:

Areas of less than 2 feet minimum cover to subgrade exist. Modify construction operations to protect new pipe before minimum cover is established.

59. Storm Sewer General.

Construct catch basins, manholes and inlets using only precast or cast in place concrete masonry options. Do not use the brick masonry or concrete brick or block masonry options.

Mortar shall not be used between structures for adjustment, however mortar shall be used to provide a smooth trowel type finish to the interior surface of the joints between the inlet/manhole structure, adjusting rings and casting. Install concrete mortar between the pipe and the inlet/manhole cutout to the satisfaction of the owner and/or engineer to fill any gaps and finish the interior flowline of the structure. Furnish mortar material according to standard spec 519.2.3.

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

For precast structures tying into existing storm sewer facilities, verify all pipe sizes and elevations prior to ordering structure.

Dewatering trenches is incidental to the unit price for all storm sewer pipe bid items.

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

60. Manhole and Inlet Covers.

Replace standard spec 611.2 (4) with the following:

Furnish cover manufactured by Neenah Foundry meeting the standard detail drawings.

61. Inlet Covers Type T, Item 611.0562.

Supplement standard spec 611.2 (4) with the following:

Furnish rubber adjustment rings off the WisDOT approved project list.

Replace standard spec 611.3.3 (1) with the following:

Set inlet cover Type T on rubber adjustment riser ring. Use approved mastic adhesive between the ring and the inlet structure. Use an approved polyurethane adhesive with a flexible set between the ring and the inlet cover. Use two 5/16-inch beads of adhesive placed 1 inch and 2 inches in from the outside edge of the ring. If multiple adjustment rings are necessary, a maximum of two adjustment rings can be used. A maximum of 3-inch adjustment is allowed. Use polyurethane adhesive with a flexible set to join the two rings. If the adjustment rings must be cut, the joints must be staggered and a polyurethane adhesive used to reattach the cut ends. No concrete adjustment rings or mortar is to be placed between the top of the structure and the inlet cover Type T.

62. Existing Sanitary Sewer and Storm Sewer Castings.

All existing sanitary sewer and storm sewer castings removed within the project limits will become the property of City of Manitowoc. Sort, palletize, and stockpile on the site. The city will load the salvaged materials onto their vehicles. Contact Chad Scheinoha, 920-686-6512, to coordinate three working days prior to pickup of the salvaged castings. This work will be incidental to the pay items of Removing Manholes and Removing Inlets.

63. 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)

64. Pipe Grates, Item 611.9800.S.

A Description

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

B Materials

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

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9800.S	Pipe Grates	EACH

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

stp-611-010 (20030820)

65. Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.01.

A Description

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

B Materials

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

Delete flammability requirement.

B.1 Certification

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

C (Vacant)

D Measurement

The department will measure Insulation Board Polystyrene (size) by area in square yards of work completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
612.0902.S.01	Insulation Board Polystyrene 2-Inch	SY

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

stp-612-005 (20030820)

66. Salvaged Rail, Item 614.0920; Salvaged Guardrail End Treatments, Item 614.0925.

Supplement standard spec 614.3.9 with the following:

Coordinate pickup arrangements with City of Manitowoc before starting the salvaged rail work. The city will load the salvaged materials onto their vehicles. Notify Chad Scheinoha, 920-686-6512 to coordinate three working days prior to pickup of salvaged rail.

67. 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)

68. Seeding.

Modify standard spec 630.3.3.5.1(1) with the following:

Use the following sowing rate for seeds in pounds per 1,000 square feet:

- Seed Mixture No. 30 at 5 pounds
- Seed Mixture No. 40 at 5 pounds

69. Sod Water, Item 631.0300.

Replace standard spec 631.3.5(1) with the following:

Under the Sod Water bid item, furnish and apply water to sodded or seeded areas as noted in plans.

Moisten sodded or seeded areas thoroughly after staking and cleanup.

Keep all sodded or seeded areas thoroughly moist by applying a minimum of 1 inch of water per week, minus applicable rainfall, for a minimum of 30 consecutive days. Do not leave un-watered for more than 3 days unless rainfall is sufficient, and the engineer determines it does not require watering. Apply water in a manner to preclude washing or erosion.

70. Furnishing and Planting Plant Materials

A Description

Perform the work under this item according to the plans, standard spec 632 and as hereinafter provided.

B Materials

B.1 Plant Materials

Add the following to standard spec 632.2.2:

All plants shall be grown within the states of Wisconsin, Minnesota, Michigan, or parts of northern Illinois, Indiana or Ohio located within Zone 5 of the "Plant Hardiness Zone Map" produced by the United States Department of Agriculture, Miscellaneous Publication No. 1475, issued January 1990, unless otherwise approved by the engineer.

B.2 Plant Approval

Add the following to standard spec 632.2.2.8:

Furnish a list of sources for plants according to standard spec 632.2.2.8 before planting begins for fall-planted plants and before March 15 for spring-planted plants. All sources will be subject to verification by the engineer.

B.3 Mulch

Replace standard spec 632.2.6 as follows:

Mulch all plants with 3" double shredded hardwood mulch that is substantially free of noxious weed seeds and objectionable foreign material. Obtain the engineer's approval for the mulch prior to installation.

C Construction

C.1 Planting

Replace sentence 4 of standard spec 632.3.7, paragraph 3 with the following:

Remove the burlap and other wrapping materials including, but not limited to, twine, wire baskets, and plastic ribbon, from the entire root ball of B&B plants.

C.2 Excavation of Planting Holes

Add the following to standard spec 632.3.4:

The minimum horizontal measurement of the plant hole shall be no less than 24 inches (600mm) greater than the diameter of the ball, container, or root mass for the full depth of the planting hole.

Ensure that the bottom of the hole is adequately compacted to guard against settling. Tamp or water as necessary to create a condition by which plants will not settle in the planting beds. The bottom of the root ball shall be in direct contact with the bottom of the hole.

C.3 Plant Establishment Period

Replace standard spec 632.3.18.1.1 with the following:

A plant establishment period of 1 year shall follow the completion of planting.

71. 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 \$800 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)

72. Topsoil

Replace standard spec 625.2.1 with the following:

Topsoil consists of loam, sandy loam, silt loam, silty clay loam, or clay loam humus-bearing soils adapted to sustain plant life.

73. Removing Signs Type II.

Add the following to standard spec 638.3.4:

All signs removed within the project limits will become the property of City of Manitowoc. Carefully remove sign from their supports, sort by base material, palletize them by material type, and stockpile on site. Load signs on city trucks for removal from project site. Notify Chad Scheinoha, (920) 686-6512, three working days prior to pickup of signs.

74. Removing Small Sign Supports.

Add the following to standard spec 638.3.5:

All sign supports removed within the project limits will become the property of City of Manitowoc. Carefully remove sign supports, sort by length and type, and stockpile on site. Load sign supports on city trucks for removal from project site. Notify Chad Scheinoha at (920) 686-6512, three working days prior to pickup of sign supports.

75. Permanent Signing

Install intersection direction signs (D1 series signs) at the STH 42/Maritime Drive roundabout intersection as shown in the plans with a minimum mounting height of 60-inches.

76. Removing Locally-Owned Signs.

The local road signs throughout the project are the property of the City of Manitowoc. The City of Manitowoc will remove their signs in conflict with the project during construction.

Coordinate a schedule for sign removals with the City of Manitowoc contact Greg Minikel at (920) 686-6910, five working days before needing the signs removed.

77. Traffic Control

Perform this work according to the requirements of standard spec 643, and as shown on the plans or as approved by the engineer, except as hereinafter modified.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as shown on the plans. Submit this plan ten days prior to the preconstruction conference.

Provide 24 hours-a-day availability of equipment and forces to expeditiously restore lights, signs, or other traffic control devices that are damaged or disturbed. The cost to maintain and restore the above items shall be considered incidental to the item as bid and no additional payment will be made therefore.

Supply the name and telephone number of a local contact person for traffic control repair before starting work.

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

The turning of traffic control devices when not in use to obscure the message will not be allowed under this contract.

Obtain prior approval from the engineer for the location of egress and ingress for construction vehicles to prosecute the work.

Cover existing signs which conflict with traffic control as directed by the engineer.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles on the roadways. This includes the following:

- a. Do not park or store any vehicle, piece of equipment, or construction materials on the right-of-way without approval of the engineer.
- b. All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic.
- c. Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1000 feet. Activate the beam when merging into or exiting a live traffic lane.

Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor expense.

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

(NER09-1119)

**78. Temporary Pedestrian Surface Asphalt, Item 644.1410.S;
Temporary Pedestrian Surface Plywood, Item 644.1420.S;
Temporary Pedestrian Surface Plate, Item 644.1430.S.**

A Description

This special provision describes providing, maintaining, and removing temporary pedestrian surface.

B Materials

Furnish 1 1/4-inch dense graded aggregate conforming to standard spec 305.2. Furnish:

- Asphaltic surface conforming to standard spec 465.2.
- Pressure treated 2x4 framing lumber, pressure treated 3/4 inch plywood with skid resistant surface coating, and weather resistant deck screws 3 1/2 inch minimum for framing and 1 5/8 inch minimum for plywood.
- 1/4 inch minimum steel plate or commercially available prefabricated plates with skid resistant surface coating conforming to Americans with Disabilities Act Accessibility Guidelines. If placed in the roadway, must be able to handle a vehicle weight of 88,000 lbs.

C Construction

Place, compact, and level a dense graded aggregate foundation before placing the surface.

Provide a firm, stable, and slip-resistant surface layer with vertical joints no higher than 1/4 inch and horizontal joints no wider than 1/2 inch. Sheet materials up to 1 inch thick may be lapped if the edge is beveled at 45 degrees or flatter. Asphalt may also be used to ramp up to materials up to 1 inch thick. Construct conforming to the following:

- Asphalt surface a minimum of 2 inches thick compacted with compactors, tampers, or rollers.
- Framed plywood panels 4 feet wide with a skid resistant surface coating.
- Steel or prefabricated plate with a skid resistant surface coating.

Align parallel to the existing roadway grade or, if outside of a street or highway right-of-way, do not exceed 5 percent longitudinal slope. Provide cross slope of 1 to 2 percent unless the engineer approves a steeper cross slope in writing.

Maintain the surface with a 4 foot minimum clear width and the specified joint and slope requirements. Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 203.3.4 when no longer required.

D Measurement

The department will measure temporary pedestrian surface 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
644.1410.S	Temporary Pedestrian Surface Asphalt	SF
644.1420.S	Temporary Pedestrian Surface Plywood	SF
644.1430.S	Temporary Pedestrian Surface Plate	SF

Payment is full compensation for providing, maintaining, and removing temporary pedestrian surface.

stp-644-010 (20150630)

79. Temporary Curb Ramp, Item 644.1601.S.

A Description

This special provision describes providing, maintaining, and removing temporary curb ramps.

B Materials

Furnish materials as follows:

- Asphaltic surface conforming to standard spec 465.2.
- Engineer-approved ready mixed concrete or ancillary concrete conforming to standard spec 602.2 except no QMP is required.
- Commercially available prefabricated curb ramps conforming to Americans with Disabilities Act Accessibility Guidelines.

Furnish yellow detectable warning fields conforming to Americans with Disabilities Act Accessibility Guidelines. Use either an engineer-approved surface-applied type or cast iron from the department's approved products list.

C Construction

Provide and maintain temporary curb ramps, including detectable warning fields, throughout the project duration. Place and compact a dense graded aggregate foundation before placing the curb ramp, unless the curb ramp is to be placed on existing roadway surface.

Remove and dispose temporary curb ramps and associated detectable warning fields when no longer required.

D Measurement

The department will measure temporary curb ramps by each individual ramp 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
644.1601.S	Temporary Curb Ramp	EACH

Payment is full compensation for providing, maintaining, and removing temporary curb ramps.

stp-644-020 (20150630)

80. Temporary Pedestrian Safety Fence, Item 644.1616.S.

A Description

This special provision describes providing, maintaining, and removing the temporary pedestrian safety fence.

B Materials

Furnish notched metal "T" or "U" shaped fence posts weighing 1 1/3 pounds per foot or more.

Furnish select 2x4 dimensional lumber.

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

The engineer may allow prefabricated fencing systems conforming to Americans with Disabilities Act Accessibility Guidelines.

C Construction

Provide a continuous safety fence with the top edge free of sharp or rough edges.

Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 204.3 when no longer required.

D Measurement

The department will measure Temporary Pedestrian Safety 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
644.1616.S	Temporary Pedestrian Safety Fence	LF

Payment is full compensation for providing, maintaining, and removing the temporary pedestrian safety fence.

stp-644-025 (20150630)

81. Construction Staking Slope Stakes, Item 650.9920.

Add the following to standard spec 650.3.13:

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

82. Sanitary Sewer Staking.

The City of Manitowoc will provide primary survey reference points and line and grade staking for sanitary sewer as follows:

Sanitary Sewer: Line and grade for laser installation, stakes at 25 feet o.c. for first 100 feet, then stake every 100 feet and manhole locations.

Notify the City of Manitowoc minimum of three working days in advance of required surveys and staking. Each type of line and grade staking will be set once. Contractor is responsible for preserving stakes. Any additional staking or restaking due to alteration or removal of stakes by construction activity will be paid for by contractor.

83. Water Main Staking.

Manitowoc Public Utilities will provide primary survey reference points and line and grade staking for water main as follows:

- Use sanitary sewer stakes where water is parallel to sanitary; new offset and minimum cuts will be provided. Where water is not parallel to sanitary, new line and minimum cut stakes will be provided on an offset at 100 feet o.c. In either case, hydrant and valve locations will be given.

Notify Manitowoc Public Utilities a minimum of three working days in advance of required surveys and staking. Each type of line and grade staking will be set once. Contractor is responsible for preserving stakes. Any additional staking or restaking due to alteration or removal of stakes by construction activity shall be paid for by contractor.

84. General Requirements for Electrical Work.

Add the following to standard spec 651.3.3 (3):

Request a signal inspection of the completed signal installation to the engineer at least five working days prior to the time of the requested inspection. Notify the City of Manitowoc, Mark DeZeeuw at (920) 686-6517 to coordinate the inspection. The engineer will not authorize the turn-on until the contractor corrects any deficiencies.

85. Traffic Signals, General.

The following traffic signal items shall be procured in black for this project:

- Pedestal Bases
- Transformer Bases Breakaway 11 ½-Inch Bolt Circle
- Trombone Arms 25-FT
- Pedestrian Signal Face 16-Inch
- Traffic Signal Standards 10-FT
- Traffic Signal Standards 15-FT
- Poles Type 10 and 13
- Monotube Arms 30-FT, 35-FT, and 45-FT
- Luminaire Arms Steel 15-FT
- Signal Mounting Hardware

Note that failure to comply with the state standards and specifications may result in the cost of the corrections to be made at the contractor's expense

Staking

Stake the proposed locations of traffic signals and street light item 5 days prior to starting work so that the locations of the proposed facilities can be approved by the City of Manitowoc. The city will only approve bases prior to base construction and after utility locates (Diggers Hotline) are marked in the field and clearly visible. Contact Mark DeZeeuw, (920) 686-6517.

Any field changes regarding the location of the signal poles, pull boxes, etc. as shown on the plans will be approved by the City of Manitowoc. Signal and lighting items placed at locations not previously approved which need to be relocated will be done so at the contractor's expense.

As-Builts

Provide the City of Manitowoc two complete as-built traffic signal plan copies for each intersection showing the complete layout of the traffic signals including all conduit, pull boxes, bases, traffic signals, and cable routing taking into account any changes during construction. The cost of this shall be considered incidental to traffic signal bid items.

Concrete Bases

Verify bolt pattern with pole manufacturer prior to installation of bases. Any changes required to match required bolt pattern to be considered incidental.

Do not place covers or shrouds over the bolts at the bases.

Remove Sonotube/form after construction. The structural design of the bases includes the intent that the Sonotube/form be stripped after construction. If the contractor chooses to not use a form and the poured base gets larger than designed due to poor soils, the additional materials/labor is considered incidental.

86. 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

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 in accordance with 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]	≤2.3

^[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	≤ 2.3

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

Test 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:
<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/qmp/default.aspx>
6. Design an appropriate paste content based upon the Performance-based PCC Mix Design Guide located at:
<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/qmp/default.aspx>
7. Provide a minimum V_{paste}/V_{voids} 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:
<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/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 (20180628)		

87. Flexural Strength for Concrete Mix Design.

This special provision describes optional testing requirements for flexural strength during the mix design process. 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 715.2.3.1(1) with the following:

- (1) Provide both compressive and flexural strength information to demonstrate the strength of the proposed mix design. Use either laboratory strength data for new mixes or field strength data for established mixes as follows:
 1. Use at least 5 pairs of cylinders for compressive strength. Demonstrate that the 28-day compressive strength will equal or exceed the 85 percent within limits criterion specified in 715.5.2.

2. Use at least 5 pairs of beams for flexural strength. Demonstrate that the 28-day flexural strength will equal or exceed 650 psi.

stp-715-010 (20170615)

88. QMP Ride.

Delete standard spec 740, QMP Ride.

89. Crack and Damage Survey, Item 999.1500.S.

A Description

This special provision describes conducting a crack and damage survey of the residences and business located at 1106 N 15th Street, Manitowoc.

This Crack and Damage Survey shall consist of two parts. The first part, performed before construction activities, shall include a visual inspection, digital images, and a written report describing the existing defects in the building(s) being inspected. The second part, performed after the construction activities, shall also include a visual inspection, digital images, and written report describing any change in the building's condition.

B (Vacant)

C Construction

Before any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Electronically submit a written report with the inspector's name, date of inspection, descriptions and locations of defects, and digital images. The intent of the written report and digital images is to procure a record of the general physical condition of the building's interior and exterior walls and foundation.

Use a digital camera capable of producing sharp, grain free, high-contrast colored digital images with good shadow details. Label each digital image with the following information:

ID: _____
Building Location: _____
View looking: _____
Date: _____
Photographer: _____

Before the start of any construction activities related to this survey, submit a copy of the written report and digital images to the engineer electronically.

After the construction activities are complete, conduct another survey in the same manner, take digital images, and submit another written report to the engineer electronically.

Instead of digital images, a digital video camera capable of producing sharp, high contrast, colored digital video with good shadow detail may be used to perform this work.

D Measurement

The department will measure Crack and Damage Survey as single complete 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
999.1500.S	Crack and Damage Survey	LS

Payment is full compensation for providing the before and after written reports, and for photographs or video.

stp-999-010 (20170615)

90. Planting Soil Mixture, Item SPV.0035.01.

A Description

This special provision describes furnishing and installing Planting Soil Mixture at the locations shown on the plans and according to the requirements of standard spec 632, the plans, and as hereinafter provided.

B Materials

Furnish planting soil mix conforming to standard spec 632.2.3.4

C Construction

Remove compacted base from within 6 inches of curbs and pavement of planting beds. Loosen subgrade of planting beds to a minimum depth of 12". Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter. Thoroughly blend planting soil mix off-site before spreading. Do not spread frozen, muddy, or excessively wet planting soil or subgrade. Spread approximately one-third the thickness of planting soil mix over loosened subgrade. Mix thoroughly into top 6 inches of subgrade. Spread planting soil mix, in maximum of 6 inch lifts, to a minimum depth of 12" but not less than required to meet finish grades after natural settlement. Grade planting beds to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades

D Measurement

The department will measure Planting Soil Mixture by the cubic 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.0035.01	Planting Soil Mixture	CY

Payment is full compensation for furnishing and placing all materials, including excavation, disposal, hauling, placing, grading.

91. Removing Buried Cattle Pass, Station 161+35, Item SPV.0035.02.

A Description

This special provision describes removing reinforced concrete associated with an old cattle pass at Station 161+35 for storm sewer and according to the requirements of standard spec 204, the plans, and as hereinafter provided.

B Vacant

C Construction

Remove concrete and steel reinforcement to the extent necessary for the installation of pipe.

Dispose of concrete as specified for disposing of materials under standard spec 203.3.4.

D Measurement

The department will measure Removing Buried Cattle Pass, Station 161+35 by the cubic 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.0035.02	Removing Buried Cattle Pass, Station 161+35	CY

Payment is full compensation for removing all concrete and steel reinforcement, including excavation, disposal, and hauling.

92. Inlet Covers Type DW, Item SPV.0060.01; Inlet Covers Type BH, Item SPV.0060.02.

A Description

This special provision describes constructing inlet covers as shown on plans and directed by the engineer and as hereinafter provided.

B Materials

Furnish Neenah Foundry inlet casting R-2560-E for Type BH inlet cover.

Furnish Neenah Foundry inlet casting R-3067-L with curb plate for Type DW cover.

C Construction

Use construction methods conforming to the plans and with standard spec 611.3.

D Measurement

The department will measure Inlet Covers Type BH and Inlet Covers Type DW by each individual cover, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Inlet Covers Type DW	Each
SPV.0060.02	Inlet Covers Type BH	Each

Payment is full compensation according to standard spec 611.5.

93. Manhole Covers Bolted, Item SPV.0060.03.**A Description**

This special provision describes furnishing and installing Manhole Covers Bolted as shown on the plans, according to standard spec 611 and as hereinafter provided.

B Materials

Furnish Neenah Foundry manhole cover R-1916-C.

C Construction

Use construction methods conforming to the plans and with standard spec 611.3.

D Measurement

The department will measure Manhole Covers Bolted by each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Manhole Covers Bolted	Each

Payment for the Manhole Covers Bolted bid item is full compensation for providing and maintaining new covers, including frames, grates or lids, bolts, and all other required materials for installing and adjusting each cover.

94. Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch, Item SPV.0060.04.**A Description**

Furnish and install Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch, as shown in the plans, according to standard spec 522, and as hereinafter provided.

B Materials

Provide according to standard spec 522.2.

C Construction

Perform construction operations according to standard spec 522.3.

D Measurement

The department will measure Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch by the 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.0060.04	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch	Each

Payment is full compensation for providing apron endwalls; and for excavating, constructing the foundation, backfilling, and incidentals necessary to complete the contract work.

95. Manholes 10-FT Diameter, Item SPV.0060.05.

A Description

This special provision describes the constructing a 10-foot manhole as shown on plans and directed by the engineer and as hereinafter provided.

B Materials

Use materials according to standard spec 611.2.

Provide drawings stamped by a professional engineer registered in the State of Wisconsin for steel reinforcing design.

C Construction

Construct according to standard spec 611.3.

D Measurement

The department will measure Manholes 10-FT Diameter 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.0060.05	Manholes 10-FT Diameter	Each

Payment is full compensation for providing materials, including masonry, sewer connections, steps, and other fittings; for excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site.

96. Manholes 9.5x16-FT, Item SPV.0060.06.

A Description

This special provision describes the constructing a 9.5x16-FT manhole as shown on plans and directed by the engineer and as hereinafter provided.

B Materials

Use materials according to standard spec 611.2.

Provide drawings stamped by a professional engineer registered in the State of Wisconsin for steel reinforcing design.

C Construction

Construct according to standard spec 611.3.

D Measurement

The department will measure Manholes 9.5x16-FT as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Manholes 9.5x16-FT	Each

Payment is full compensation for providing materials, including masonry, sewer connections, steps, and other fittings; for excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site.

97. Mini Storm Sewer Cleanout, Item SPV.0060.07.

A Description

Furnish and install mini storm sewer cleanouts, according to the pertinent provisions of standard spec 608 and 612, as shown on the plan, and as hereinafter provided.

B Materials

Furnish pipe and fittings that meet the requirements for Type PSM Polyvinyl Chloride (PVC) Sewer Pipe (SDR 35) as set forth in ASTM Designation D-3034.

Furnish and install 0.5-inch diameter rebar 2 feet long to mark locations of mini storm cleanouts.

C Construction

Install mini storm sewer cleanouts according to the pertinent requirements set forth in standard spec 608.3 and 612.3.

Mini storm sewer connections to storm sewer structures and existing laterals are incidental to this item of work.

All cleanouts will be capped at locations shown on the plan or directed by the engineer.

Mark locations of all mini storm sewer and lateral stubs with a rebar set 6 inches below the finished grade.

D Measurement

The department will measure Mini Storm Sewer Cleanouts by each unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Mini Storm Sewer Cleanout	Each

Payment is full compensation for furnishing and installing, transporting, handling and placing all materials, including pipe, backfill, connections, rebar fittings, frost sleeve and caps or plugs; and for performing all excavation, compaction, proper disposal of surplus material and restoring the site of work.

98. Concrete Cap Over Sanitary Sewer, Item SPV.0060.08.

A Description

Furnish and install concrete cap over sanitary sewer to protect the sanitary sewer, as shown on the plan, and as hereinafter provided.

B Materials

Furnish grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete according to standard spec 501 as modified in standard spec 716.

Furnish Type II Portland Cement.

Concrete testing to follow standard spec 716 specifications for Class II concrete

Furnish steel reinforcement according to standard spec 505.

Backfill according to standard spec 608.

C Construction

Construct Concrete Cap Over Sanitary Sewer as shown in the plan and extending along the sanitary sewer two feet beyond the limits of the overlying storm sewer.

D Measurement

The department will measure Concrete Cap Over Sanitary Sewer by each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08.	Concrete Cap Over Sanitary Sewer	Each

Payment is full compensation for furnishing and installing concrete, steel reinforcement, forming, backfilling, and all incidentals necessary to complete the contract work.

99. Utility Line Opening (ULO), Item SPV.0060.09.

A Description

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

B (Vacant)

C Construction

The excavation will be done in such a manner that the utility in question is not damaged and the safety of the workers is not compromised.

The utility line openings will be performed as soon as possible and at least 10 days in advance of proposed construction to allow any conflicts to be resolved with minimal disruption. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Utility line openings will include a trench up to 10 feet long as measured at the trench bottom and of any depth required to locate the intended utility.

All utility line openings will be approved and coordinated with the engineer. Notify the utility engineers or their agents of this work a minimum of 3 days prior to the work so they can be present when the work is completed.

D Measurement

The department will measure Utility Line Opening as each individual opening, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Utility Line Opening	Each

Payment is full compensation for furnishing, hauling and placing of all materials; and for excavation, backfilling and disposing of excess material.

Concrete curb and gutter, and concrete sidewalk removals necessary to facilitate utility line openings will be measured and paid for separately.

Place 6-inches of Base Aggregate Dense 1¼-inch on surface of utility opening. Base Aggregate Dense 1¼-inch will be measured and paid for separately.

100. Walker's Low Blue Catmint, Item SPV.0060.10.

A Description

This special provision describes the furnishing and planting of Walker's Low Blue Catmint plant materials according to the plans. Complete in place at the locations as designated on the plans, or as directed by the engineer conforming to standard spec Section 632 and as hereinafter provided.

B Materials

Furnish materials per standard spec 632.2.

C Construction

Install plants as detailed and according with pertinent provisions of standard spec 632.3.

Mulch all plants with 3" shredded hardwood mulch.

D Measurement

The department will measure Walker's Low Blue Catmint as each individual plant 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	Walker's Low Blue Catmint	Each

Payment is full compensation for providing, transporting, handling, storing, placing, and replacing plant materials; for excavating all plant holes, salvaging topsoil, mixing, and backfilling; for providing and applying all required fertilizer, mulch, water, herbicides, for disposing of all excess and waste materials.

Hardwood mulch will be paid for separately.

101. Salvage Light Poles and Remove Bases, Item SPV.0060.11.

A Description

This special provision describes removing and salvaging fiberglass light poles as shown on the plans, directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction

Remove existing base and fiberglass light poles in such a way that prevents damage to the pole. Stockpile poles on-site for pickup by Manitowoc Public Utilities. Contact Steve Bacalzo 920-686-4310 for pickup.

Remove luminaires from pole before stockpiling. Dispose of luminaires.

Existing aggregate light poles will not be salvaged and removed under a separate bid item.

D Measurement

The department will measure Salvage Light Poles and Remove Bases as each individual light pole acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.11	Salvage Light Poles and Remove Bases	Each

Payment is full compensation for removing bases, removing light poles, and stockpiling light poles.

102. Concrete Bases Type 7 Special, Item SPV.0060.20.

A Description

This special provision describes This section describes constructing concrete bases for street lights as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Furnish materials that are according to the requirements of standard spec 654.2.

C Construction

All work under this item to conform to standard spec 654.3.

Manitowoc Public Utilities distribution operations department will approve the final locations for all concrete bases in the field prior to construction after staking is completed. Contact distribution operations department 3 working day before inspection is required at 920-683-4600.

For bases located between sidewalk and curb, set elevation to height of sidewalk. In addition, construct sidewalk around base and between curb and sidewalk as show in construction detail and paid for as Concrete Sidewalk 4-Inch.

D Measurement

The department will measure Concrete Bases Type 7 Special as each individual 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.0060.20	Concrete Bases Type 7 Special	Each

Payment is full compensation according to standard spec 654.5.

103. Composite Light Poles 40-FT, Item SPV.0060.21.

A Description

This special provision describes furnishing and installing composite light poles for street lights as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Furnish Shakespeare AD40-00S1 composite light pole.

C Construction

All work under this item to conform to standard spec 657.3.3 and as the manufacturer directs.

D Measurement

The department will measure Composite Light Poles 40-FT as each individual pole 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	Composite Light Poles 40-FT	Each

Payment is full compensation according to standard spec 657.5 (3)

104. Luminaire Arms Aluminum 6-FT, Item SPV.0060.22; Luminaire Arms Aluminum 8-FT, Item SPV.0060.23; Luminaire Arms Aluminum 15-FT, Item SPV.0060.24.

A Description

This special provision describes furnishing and installing luminaire arms for street lights as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Furnish Shakespeare OPAR-6x6, OPAR-8x6, OPAR-15x6 aluminum luminaire arm powder coated black including all mounting clamps with stainless steel bolts, nuts, and washers conforming to ASTM A320.

C Construction

All work under this item to conform to standard spec 657.3.3.

D Measurement

The department will measure Luminaire Arms Aluminum (length) as each individual arm 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	Luminaire Arms Aluminum 6-FT	Each
SPV.0060.23	Luminaire Arms Aluminum 8-FT	Each
SPV.0060.24	Luminaire Arms Aluminum 15-FT	Each

Payment is full compensation according to standard spec 657.5 (2)

105. Luminaire LED, Item SPV.0060.25.

A Description

This special provision describes furnishing and installing luminaires for street lights as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Furnish one of the following:

- American Electric Lighting model ATB2 60BLED10 MVOLT R2 BK luminaire
- Leotek GC2-96G-MV-NW-2R-BK-700 luminaire
- Philips RFL-215W96LED4K-G2-R2M-UNV-BK luminaire

Only one model of Luminaire is to be used throughout the project. No mixing of models is allowed.

C Construction

All work under this item to conform to standard spec 659.3 and as the manufacturer directs.

D Measurement

The department will measure Luminaire LED 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.0060.25	Luminaire LED	Each

Payment is full compensation according to standard spec 659.5

106. Luminaire LED RAB, Item SPV.0060.26.

A Description

This special provision describes furnishing and installing luminaires for street lights as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Furnish American Electric Lighting model ATB2 60BLED10 MVOLT R3 BK luminaire, Leotek GC2-96G-MV-NW-3R-BK-700, or approved equal.

C Construction

All work under this item to conform to standard spec 659.3 and as the manufacturer directs.

D Measurement

The department will measure Luminaire LED RAB 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.0060.26	Luminaire LED RAB	Each

Payment is full compensation according to standard spec 659.5

107. Lighting Pull Box, Item SPV.0060.27.

A Description

This special provision describes furnishing and installing pull boxes for street lights as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

B.1 Pull box

Furnish Highline Products Composite Handhold Assembly Model CHA101518. Each cover shall have the logo "STREET LIGHTING" imprinted from the manufacturer.

B.2 Aggregate

Furnish No. 2 coarse aggregate in accordance standard spec 501.2.5.4.5.

C Construction

All work under this item to conform to standard spec 653.3 and as the manufacturer directs.

Construct a 12-inch deep base under pull box consisting of No. 2 coarse aggregate that is 6-inches wide than the bottom base of the pull box.

Locate cover of pull box a minimum of 3 feet from back of curb. Do not place pull box in the sidewalk.

D Measurement

The department will measure Lighting Pull Box 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.0060.27	Lighting Pull Box	Each

Payment is full compensation according to standard spec 653.5 (2).

108. Removing Fire Hydrants, Item SPV.0060.40.

A Description

This special provision describes removing existing fire hydrants as shown on the plans, and according to the applicable provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

All Waterous Pacer hydrants shall be removed at the hydrant lead and returned to MPU for re-use. Excavate the existing fire hydrant following abandonment of the connecting water main, remove the fire hydrant from the connecting pipe, cap the connecting pipe with a mechanical joint, and backfill the excavation with excavated material. Place and compact backfill as specified for water main pipe.

All other hydrants shall be abandoned below grade and the heads returned to MPU. Excavate the existing fire hydrant following abandonment of the connecting water main, remove the fire hydrant from the hydrant barrel at least 24" below grade, and abandon hydrant barrels in place by filling with granular material. Backfill the excavation with excavated material. Place and compact backfill as specified for water main pipe.

Manitowoc Public Utilities shall have first right to retain fire hydrants that are removed by contractor. Contact Pete Dollhopf, telephone (920) 374-1489 to request inspection of removed hydrants. Deliver hydrants that Manitowoc Public Utilities wishes to retain to 1520 Dewey St, Manitowoc. Hydrants that Manitowoc Public Utilities does not wish to retain shall become the property of the contractor and shall be removed from the site.

D Measurement

The department will measure Removing Fire Hydrants as each individual fire hydrant, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.40	Removing Fire Hydrants	Each

Payment is full compensation for excavating and dewatering as required, removing the existing fire hydrant, plugging or capping of the existing main, delivering the fire hydrant to the designated site or disposal if directed, and backfilling and compacting the excavation.

109. Removing Valve, Valve Manholes, and Valve Boxes, Item SPV.0060.41.

A Description

This special provision describes removing existing valve manholes and valve boxes as shown on the plans, and according to the applicable provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Remove the existing valve manhole casting or valve box following abandonment of the connecting water main. Abandon valve boxes and manholes in place by removing the manhole lid or casting, removing the manhole or valve barrel at least 24" below grade, and filling with granular material. Place and compact backfill as specified for water main pipe.

Manitowoc Public Utilities shall have first right to retain valve manholes and valve boxes that are removed by contractor. Contact Pete Dollhopf, telephone 920-374-1489 to request inspection of removed items. Deliver items that Manitowoc Public Utilities wishes to retain to 1520 Dewey St, Manitowoc. Items that Manitowoc Public Utilities does not wish to retain shall become the property of the contractor and shall be removed from the site.

D Measurement

The department will measure Removing Valve Manholes and Valve Boxes as each individual valve manhole and valve box acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.41	Removing Valve, Valve Manholes, and Valve Boxes	Each

Payment is full compensation for excavating and dewatering as required, removing the existing valve manhole and valve box, delivering the items to the designated site or disposal if directed, and backfilling and compacting the abandoned manholes and excavation.

**110. Install Gate Valve and Box 6-Inch, Item SPV.0060.42;
Install Gate Valve and Box 8-Inch, Item SPV.0060.43;
Install Gate Valve and Box 10-Inch, Item SPV.0060.44;
Install Gate Valve and Box 12-Inch, Item SPV.0060.45.**

A Description

This special provision describes installing gate valves and boxes on water mains and fire hydrant leads as shown on the plans and as hereinafter provided.

B Materials

Provide bedding and backfill materials to the requirements for water main pipe.

Provide concrete blocking as shown in construction details.

C Construction

Set valve in place as detailed on plans. Install valve box so that it does not transmit shock or stress to valve and is centered and plumb over wrench nut of valve, with box cover flush with finished surface. Backfill valve box to one foot above bonnet of valve with water main cover material. Place and compact backfill as specified for water main pipe.

D Measurement

The department will measure Install Gate Valve and Box (diameter) as each individual gate valve and box, 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.0060.42	Install Gate Valve and Box 6-Inch	Each
SPV.0060.43	Install Gate Valve and Box 8-Inch	Each
SPV.0060.44	Install Gate Valve and Box 10-Inch	Each
SPV.0060.45	Install Gate Valve and Box 12-Inch	Each

Payment is full compensation for furnishing and installing the gate valve, valve box, and valve box adaptor on water main; for excavating, dewatering, and backfilling; and for disposing of excess materials.

111. Install Fire Hydrant, Item SPV.0060.46.

A Description

This special provision describes installing fire hydrants as shown on the plans and as hereinafter provided.

B Materials

Provide bedding and backfill materials to the requirements for water main pipe.

Provide concrete blocking as shown in construction details.

Provide washed stone in conformance with size no. 1 of standard spec 501.2.5.4.5 or approved by Manitowoc Public Utilities.

Provide filter fabric, Geotextile Type DF Schedule A, B, or C or approved fabric by Manitowoc Public Utilities.

C Construction

Set fire hydrant in a plumb condition at location shown on plans to flange elevation indicated. Furnish offset fittings, hydrant extensions, or hydrants of different bury depths as incidentals to provide for flange elevation specified. Deviations from flange elevations of up to plus or minus 3 inches will be allowed. Install pumper nozzle of fire hydrant pointing toward street. Place approximately 1/2 cubic yard of clean, washed bedding stone from bottom of trench around hydrant elbow and up hydrant barrel covered with filter fabric. Take care to allow hydrant weep hole to freely drain into this stone pocket. Place and compact backfill as specified for water main pipe.

D Measurement

The department will measure Install Fire Hydrant as each individual fire hydrant 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.0060.46	Install Fire Hydrant	Each

Payment is full compensation for furnishing all materials not provided by Manitowoc Public Utilities and installing the fire hydrant, gravel pocket, and any offset fittings or extensions required; for excavating, dewatering, and backfilling; and for disposing of excess materials.

112. Install Water Service Corporation Stop & Curb Stop and Box 1-1/4-Inch, Item SPV.0060.47.

A Description

This special provision describes installing service saddles, water service corporation stops at water main and curb stops and boxes for polyethylene water services as shown on the plans and as hereinafter provided.

B Materials

Provide bedding and backfill materials to the requirements for water service pipe.

Provide tracer wire that is a minimum of 12 gauge solid core copper electric wire with blue PVC coating and rated for wet conditions. Stranded tracer wire is unacceptable. Provide all material for tracer wire connections.

C Construction

Install water service saddle on PVC pipe, installation not required on ductile iron pipe. Install corporation stop, curb stop, and box in conjunction with water service pipe to reconnect existing water services from water mains to be abandoned to new water mains, and to provide new water services to empty lots as shown on the plans or as directed by the engineer in the field. Install corporation stops between the mid line of the main and the center of the upper quadrant of the main on the same side as the building being serviced. Install corporation stops under pressure using a tapping machine, unless alternate means are approved by Manitowoc Public Utilities. The machine shall be capable of retrieving coupon and cuttings. Install corporation stops with a minimum of 3 full threads and with the shutoff on the top face.

In areas with curb and gutter, locate curb stops 3 feet behind the back of curb. In areas without curb and gutter, locate curb stop 1 foot inside the right-of-way limits. Install stop boxes in a plumb condition and check that they are free from sand or other debris and fully operational. Reset boxes to match adjacent ground or sidewalk at the time of sidewalk and terrace finishing. Placement curb stop in the sidewalk will not be allowed without Manitowoc Public Utilities approval.

For all pipe materials and services, tracer wire is to be installed with the pipe. The wire is to be placed on the top of the pipe and taped in place. Tracer wire shall be run along pipe from hydrant to hydrant. Wire shall be taped to each length of pipe at a minimum of two points. A maximum of one splice will be allowed between each hydrant. All tracer wire ends must be grounded.

Run tracer wire along polyethylene (plastic) laterals to and up/down all curb boxes and along remaining lateral length into property

Wire splices shall be soldered with a self-flux 50-50 rosin core solder and tightly wrapped with electrical tape so no copper wire is exposed.

After the contractor has completed all the underground installation on the project, the contractor shall test the electrical continuity of all the tracer wire installations on the project with the engineer. The contractor shall be responsible for any costs of any repairs that may be required.

Place and compact backfill as specified for water main pipe.

D Measurement

The department will measure Install Water Service Corporation Stop & Curb Stop and Box (diameter) as each individual corporation stop, curb stop, and curb stop box, 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.0060.47	Install Water Service Corporation Stop & Curb Stop and Box 1 1/4-Inch	Each

Payment is full compensation for furnishing all materials not provided by Manitowoc Public Utilities; for installing saddles, corporation stop, curb stop, and curb stop box; for excavating, dewatering, and backfilling; and for disposing of excess materials.

113. Connect to Existing Water Main, Item SPV.0060.49.

A Description

This special provision describes connecting new water main to existing water main as shown on the plans and as hereinafter provided.

B Materials

Confirm materials required for connection to existing water main to the requirements of ductile iron water main fittings including mechanical joint cutting-in sleeves, plugs, and couplings. Provide conductivity connectors complying with ductile iron water main and ductile iron water main fittings provisions on all water main connection materials.

C Construction

Make connections to existing water mains at the locations shown on the plans. Excavate and expose existing water main at the location of connection to determine the exact location and elevation of the existing pipe, coordinate with the local water utility personnel for the temporary shutdown of the existing water main and notify all affected businesses and residences of the time and approximate duration of the shutdown. Place and compact backfill as specified for water main pipe.

D Measurement

The department will measure Connect to Existing Water Main as each individual connection acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.49	Connect to Existing Water Main	Each

Payment is full compensation for the connection of new water main to existing water main including all fittings required, excavating, dewatering, and exposing existing water main; coordination with local water utility; notifications to affected properties; and backfilling excavation.

114. Connect to Existing Water Service, Item SPV.0060.50.

A Description

This special provision describes connecting new water services to existing, active water services as shown on the plans and as hereinafter provided.

B Materials

Make connection to the existing service with fittings designed specifically for the type of material found. These materials may include copper, galvanized steel, lead, or plastic of various sizes.

C Construction

Excavate to expose existing water service at the location of connection to determine exact diameter, location, and elevation of the existing pipe. Verify that each active service is reconnected. Place and compact backfill as specified for water service pipe.

Remove and properly dispose of existing curb stop and box as part of this item.

D Measurement

The department will measure Connect to Existing Water Service as each individual connection acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.50	Connect to Existing Water Service	Each

Payment is full compensation for the removal and proper disposal of existing curb stop and box, connection of new water service to existing water service including locating and verifying that the service is active, for all miscellaneous materials required for the connection, and for backfilling the excavation.

115. Adjusting Water Valve Box, Item SPV.0060.51.

A Description

Adjust water valve boxes to final pavement elevations, as shown in the plans and as hereinafter provided.

B Materials

Utilize existing valve boxes where the required extent of adjustment allows. If additional sections are necessary, coordinate with Manitowoc Public Utilities and contact Robert Michaelson, Telephone: (920) 686-4354; Mobile Telephone: (920) 374-0959; email: rmichaelson@mpu.org to obtain required materials.

C Construction

Prior to completion of paving operations, adjust the water valve boxes to match the final proposed grade. Excavate and expose the existing water main valve box to the depth needed to adjust the valve box to grade, add or remove extension(s) as needed, and backfill with base aggregate material according to the requirements for the adjacent roadway base course construction.

Complete adjustments in such a manner to avoid any damage to the water valve boxes. Provide the Manitowoc Public Utilities two working days advance notice prior to adjusting the valve boxes to finished grade.

D Measurement

The department will measure Adjusting Water Valve Box as a unit of work for each valve box acceptably adjusted according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.51	Adjusting Water Valve Box	Each

Payment is full compensation for adjusting each valve box; excavating as necessary to access the valve box; backfilling; repairing any damage done to the valve box during adjustment; and for adding new sections if necessary.

(NER12-0206)

116. Adjusting Water Service Curb Stop, Item SPV.0060.52.

A Description

Adjust existing water service curb stops to the required elevation.

B (Vacant)

C Construction

The contractor is responsible throughout the duration of the project to ensure water service curb stops are located and identified in blue paint and that curb stops remain accessible to Manitowoc Public Utilities staff.

Adjust water service curb stops located within the proposed concrete sidewalk and turf areas to the proposed finished grade elevation. Exercise caution in working adjacent to curb stop facilities to avoid damage to the curb stops and ensure accessibility to the curb stops during construction.

D Measurement

The department will measure Adjusting Water Service Curb Stop by 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.0060.52	Adjusting Water Service Curb Stop	Each

Payment is full compensation for adjusting water service curb stops.

(NER11-0207)

117. Sanitary Manhole Casting Type J, Item SPV.0060.60.

A Description

This special provision describes furnishing and installing manhole castings on manholes as shown on the plans, and as hereinafter provided.

B Materials

Provide Neenah Foundry R-1550-A, machined to receive a T-gasket with 2 concealed pick holes, manhole castings. Set casting using a minimum of 4 inches and maximum of 10 inches of precast reinforced concrete adjusting rings and 3-1/2 inch wide by 3/8-inch thick preformed butyl rubber sealant complying with ASTM C990.

C Construction

Place butyl rubber sealant in 3-1/2 inch widths between the cone section and adjusting ring, between any additional adjusting rings required to bring the casting to finished grade. In placing the sealant material, take care to seal the entire circumference of the ring to preclude infiltration of water.

The manhole rim elevation should be 1/8 inch to 1/4 inch below the finished asphaltic concrete pavement or 1/8 to 1/16 inch below the finished Portland cement concrete pavement and will meet street cross-slope.

D Measurement

The department will measure Sanitary Manhole Casting, Type J, as each individual casting, 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.0060.60	Sanitary Manhole Casting Type J	Each

Payment is full compensation for all materials and work including furnishing and installing new casting.

The reinforced concrete adjusting rings for necessary adjustments and joint materials will be paid under Sanitary Manhole 4-Foot for new manholes installed or Sanitary Manhole Casting, Type J, when only a new casting is required on an existing manhole structure.

118. Sanitary Manhole Chimney Seal, Item SPV. 0060.61.

A Description

This special provision describes furnishing and installing chimney seals on manholes as shown on the plans, and according to the applicable provisions of Standard Spec 611 and as hereinafter provided.

B Materials

Provide chimney seals made of an internal, flexible sleeve and stainless steel compression bands designed to prevent leakage of water into manhole in adjusting ring area between manhole frame and top of cone. Seal will remain flexible, allowing repeated vertical movements of frame due to frost lift, ground movement, or other causes of up to 2 inches and/or repeated horizontal movements of frame due to thermal movement of pavement or other causes of up to ½ inch for a 20 year design life. Provide Adaptor, Inc. "I/E.A. Seal", Cretex Speciality Products "Internal Manhole Chimney Seal", or approved equal.

C Construction

Install chimney seals on sanitary manhole according to manufacturer's instructions.

D Measurement

The department will measure Sanitary Manhole Chimney Seal by each individual chimney seal, 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.0060.61	Sanitary Manhole Chimney Seal	Each

Payment is full compensation for all materials and work including furnishing and installing new chimney seals.

119. Remove Existing Sanitary Sewer Manhole, Item SPV. 0060.62.

A Description

Remove existing sanitary sewer manholes according to the requirements of Standard Spec 204, and as hereinafter provided.

B Materials

Provide granular backfill material conforming to the gradation requirements found in Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition Section 8.43.4 or pit run material conforming to the gradation requirements found in standard spec 313, except that the maximum size of individual stone pieces will not exceed six inches.

C Construction

All manholes not being replaced are to be removed entirely. It is the city's standard not to abandon manholes in place.

D Measurement

The department will measure Remove Existing Sanitary Sewer Manhole by each individual 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.0060.62	Remove Existing Sanitary Sewer Manhole	Each

Payment is full compensation for all ground restoration, furnishing and placing granular backfill; removal and proper disposal of specified structure, casing, adjustment ring, chimney seal, grade ring, and detrimental materials.

120. Reconnect Sanitary Sewer Lateral, Item SPV.0060.63.

A Description

This special provision describes reconnecting new sanitary sewer laterals to existing lateral pipe.

B Materials

Provide flexible connectors, elbows, bends or reducers with stainless steel band seals complying with ASTM C923 for all connecting pipes. Sanitary sewer laterals will be 6-inch diameter, Schedule 40, polyvinyl chloride pipe conforming to the requirements of ASTM D3034.

C Construction

Identify and confirm that a lateral is active prior to being removed and reconnected. Remove existing lateral pipes to the next good joint. Verify that positive drainage is achieved when connecting to the existing sanitary lateral. Connect the existing lateral pipe to the new pipe with the appropriate couplings, bends, pipe, transition connectors or by means approved by the engineer. All exposed sanitary laterals will be connected by end of the day.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.63	Reconnect Sanitary Sewer Lateral	Each

Payment is full compensation for furnishing and installing all materials and flexible connectors. Any additional pipe, elbows or material required to reconnect the sanitary sewer lateral will be paid under the bid item Sanitary Lateral, 6-Inch; which includes any vertical pipe used to the actual connection point of the existing lateral.

121. Seeding Switchgrass, Item SPV.0085.01.

A Description

This special provision describes Seeding Switchgrass, according to standard spec 630, as shown on the plans, and hereinafter described.

B Materials

Furnish seeding conforming to standard spec 632.2.1.

Modify seed mixture Table 630-2 Native Seed Mixtures No. 80 to be 100% Switchgrass, Panicum virgatum.

C Construction

Construct according to the requirements of standard spec 630.3 and as shown on the plans.

Conform to standard spec 630.3.3.6 for establishment period for native Seeding.

D Measurement

The department will measure Seeding Switchgrass by the pound acceptably completed.

E Payment

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	Seeding Switchgrass	LB

Payment is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering and firming the seed.

122. Concrete Curb & Gutter Integral 18-Inch Type D, Item SPV.0090.01.

A Description

This special provision describes the installation of Concrete Curb & Gutter Integral 18-Inch Type D, as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Furnish materials that are according to the requirements of standard spec 601.2.

C Construction

Construct according to the requirements of standard spec 601.3 and as shown on the plans.

D Measurement

The department will measure Concrete Curb and Gutter Integral 18-Inch Type D according to standard spec 601.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Concrete Curb and Gutter Integral 18-Inch Type D	LF

Payment is full compensation according to standard spec 601.5.

123. Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 72x113-Inch, Item SPV.0090.02.

A Description

Furnish and install Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch, as shown in the plans, according to standard spec 608, and as hereinafter provided.

B Materials

Provide pipe according to standard spec 608.2.

C Construction

Perform construction operations according to standard spec 608.3.

D Measurement

The department will measure Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch by linear foot according to standard spec 608.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical 72x113-Inch	LF

Payment is full compensation for providing storm sewer; for excavating; for providing sheeting and shoring; for constructing the foundation and backfilling; for cleaning out; for restoring the work site; and all incidentals necessary to complete the contract work.

124. Storm Sewer Pipe PVC 6-Inch, Item SPV.0090.03; Storm Sewer Pipe PVC 12-Inch, Item SPV.0090.04.

A Description

This special provision describes furnishing and installing storm sewer according to standard spec 612, as shown on the plans, and as hereinafter provided.

B Materials

Furnish pipe and fittings furnished shall meet the requirements for Type PSM Polyvinyl Chloride (PVC) Storm Sewer Pipe and fittings as set forth in ASTM Designation D-3034 and subsequent revisions thereof.

The dimensions of the pipe shall be according to ASTM D-3034 (SDR rating 35). The wall thickness shall not be less than that specified except that isolated arcs spanning no more than 15 degrees of the perimeter shall not be less than 95% of the specified minimum.

Each length of pipe and each fitting shall be marked as follows:

- a. Manufacturer's name or trademark
- b. Nominal pipe size.
- c. The PVC cell classification, e.g., 12454-B.
- d. The legend Type PSM PVC Sewer Pipe.
- e. ASTM Designation D-3034.

Pipe fittings shall be according to all manufacture's recommendations.

All pipe and fittings shall be by one manufacturer and shall have elastomeric joints conforming to the requirements of ASTM F-477 and D-3212. PVC gasketed sewer fittings shall conform to the requirements of ASTM F-1336.

Connect new pipe to existing pipe at locations shown in the plans with appropriate PVC coupling or a flexible coupling. If a flexible coupling is used, it shall comply with ASTM C1173 and use connectors that have a rubber or elastomeric sleeve and stainless steel band assembly complying with ASTM C923 and fabricated to mate with the outer diameter of pipes to be joined. When connecting to existing concrete or clay pipe that has been lined, use a flexible connector to mate with the liner and not the concrete or clay pipe.

Underground tracer wire is required and shall comply with the plan details. Waterproof wire nuts or splice kits are required when splicing of tracer wire is performed and on the ends of the terminating tracer wire. Underground tracer wire is to be 12-gauge solid copper with a corrosion protective coating and color brown.

For tracer wire access point, provide a 1-inch PVC Schedule 40 conduit with a removable threaded galvanized metal cap. There should be 24-inch-long #4 rebar placed 6 inches below grade and adjacent to the tracer wire access point.

Backfill to conform to standard spec 608.2.

C Construction

Perform construction operations according to standard spec 608.3.

D Measurement

The department will measure Storm Sewer Pipe PVC (diameter) by the linear foot, according to standard spec 608.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Storm Sewer Pipe PVC 6-Inch	LF
SPV.0090.04	Storm Sewer Pipe PVC 12-Inch	LF

Payment is full compensation for providing storm sewer; for excavating; for providing sheeting and shoring; for constructing the foundation and backfilling; for cleaning out; connecting the PVC storm sewer inside of existing storm sewer pipes; for restoring the work site; and all incidentals necessary to complete the contract work.

125. Mini Storm Sewer 6-Inch, Item SPV.0090.05; Mini Storm Sewer 8-Inch, Item SPV.0090.06.

A Description

This special provision describes furnishing and installing mini storm sewer according to standard spec 608, as shown on the plans, and as hereinafter provided.

B Materials

Furnish pipe and fittings furnished shall meet the requirements for Type PSM Polyvinyl Chloride (PVC) Storm Sewer Pipe and fittings as set forth in ASTM Designation D-3034 and subsequent revisions thereof.

The dimensions of the pipe shall be according to ASTM D-3034 (SDR rating 35). The wall thickness shall not be less than that specified except that isolated arcs spanning no more than 15 degrees of the perimeter shall not be less than 95% of the specified minimum.

Each length of pipe and each fitting shall be marked as follows:

- a. Manufacturer's name or trademark
- b. Nominal pipe size.
- c. The PVC cell classification, e.g., 12454-B
- d. The legend Type PSM PVC Sewer Pipe
- e. ASTM Designation D-3034

Pipe fittings shall be according to all manufacture's recommendations.

All pipe and fittings shall be by one manufacturer and shall have elastomeric joints conforming to the requirements of ASTM F-477 and D-3212. PVC gasketed sewer fittings shall conform to the requirements of ASTM F-1336.

Connect new pipe to existing pipe at locations shown in the plans with appropriate PVC coupling or a flexible coupling. If a flexible coupling is used, it shall comply with ASTM C1173 and use connectors that have a rubber or elastomeric sleeve and stainless steel band assembly complying with ASTM C923 and fabricated to mate with the outer diameter of pipes to be joined. When connecting to existing concrete or clay pipe that has been lined, use a flexible connector to mate with the liner and not the concrete or clay pipe.

Storm sewer branches for use with Polyvinyl Chloride (PVC) pipe shall be saddle wyes molded or extruded of PVC with the same class and physical properties as the pipe.

Solvent weld joints shall conform to ASTM D2855.

Underground tracer wire is required and shall comply with the plan details. Waterproof wire nuts or splice kits are required when splicing of tracer wire is performed and on the ends of the terminating tracer wire. Underground tracer wire is to be 12-gauge solid copper with a corrosion protective coating and color brown.

For tracer wire access point, provide a 1-inch PVC Schedule 40 conduit with a removable threaded galvanized metal cap. There should be 24-inch-long #4 rebar placed 6 inches below grade and adjacent to the tracer wire access point.

Backfill to conform to standard spec 608.2.

C Construction

Perform construction operations according to standard spec 608.3.

Mini storm sewer shall be laid with a minimum slope of 0.5% unless otherwise approved by the engineer.

Mini storm sewer connections to storm sewer structures and existing laterals are incidental to this item of work.

Mark locations of all mini storm sewer and lateral stubs with a rebar set 6 inches below the finished grade.

Install continuous, un-spliced tracer wire over each PVC pipe from wye or tee to wye or tee. Ground wire adjacent to wye or tee by securely clamping or welding it to a grounding rod. Then loop wire around collar of wye or tee fitting and attach wire to top of pipe using tape at approximately 14 foot intervals and at all bends. Bring each tracer wire to grade in a flush mount tracer wire access box. Run wire inside a 1 inch PVC schedule 40 conduit, location to be determined in field and 18 inches of excess wire loop is required. Energize installed tracer wire and verify that pipe can be located with tracing equipment.

D Measurement

The department will measure Mini Storm Sewer Pipe (diameter) by the linear foot, according to standard spec 608.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.05	Mini Storm Sewer 6-Inch	LF
SPV.0090.06	Mini Storm Sewer 8-Inch	LF

Payment is full compensation for providing storm sewer; for excavating; for providing sheeting and shoring; for constructing the foundation and backfilling; for cleaning out; connections; for placement of termination and junction markers; tracer wire; for restoring the work site; and for furnishing all incidentals necessary to complete the contract work.

126. Televising Sewer, Item SPV.0090.07.

A Description

This special provision describes the televising sewer pipe within the project limits.

B Vacant

C Construction

Television of sanitary and storm sewers (mainline only) is required after installation. This includes the new and relayed mains from manhole to manhole. This will also include any segments of the main being relayed from the manhole to a connection point as well as any segments of main from connection point to connection point.

Provide color picture, good lighting and audio comments on a portable hard drive. Stop the camera at each defect and lateral connection for a short period of time panning and tilting to the defect or lateral connection. All television inspection of sewers will be according to The National Association of Sewer Service Companies (NASSCO) "RECOMMENDED SPECIFICATIONS FOR SEWER COLLECTION SYSTEM REHABILITATION". Complete Deflection Testing and any associated repairs prior to the televising.

Provide a report with all defects indicated in the report. List the distances from manhole to manhole and manhole to service or defects. Provide videos on a portable hard drive of the televising of the sewers as well as one copy of the paper reports. The City of Manitowoc will review and approve of all televising prior to final acceptance of the project.

If televising shows construction debris in the sewers, clean the debris from the sewers containing the debris. All costs associated with the cleaning is incidental to the sewer bid items.

For new sewer lines, any of the following defects evident from television inspection will be repaired by the contractor and the defect re-televised for acceptance after repair:

- Dips in pipe exceeding one-eighth of the internal diameter of the pipe for a distance of more than eight feet in both directions from the low point of the dip.
- Cracked or broken pipe that have not been repaired.
- Deflections of cross-sections for PVC pipe exceeding those allowed in Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition 3.2.6 i 4.
- Infiltration leaks of water at joints or along the pipe.
- Any other defect that the engineer finds unacceptable.

D Measurement

The department will measure Televising Sewers by 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.0090.07	Televising Sewers	LF

Payment is full compensation for all costs for television inspection and for providing all inspection reports and portable hard drive.

127. Marking Crosswalk Epoxy Transverse Line 12-Inch, Item SPV.0090.08.

A Description

This work includes applying Marking Crosswalk Epoxy Transverse Line 12-Inch according to plan details, standard spec 646, and as hereinafter provided.

B Materials

Furnish materials for the work that conform to the requirements of standard spec 646.2.

C Construction

Use construction methods that are according to standard spec 646.3.

D Measurement

The department will measure Marking Crosswalk Epoxy Transverse Line 12-Inch 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.0090.08	Marking Crosswalk Epoxy Transverse Line 12-Inch	LF

Payment is full compensation according to standard spec 646.5.

128. Remove and Reinstall Chain Link Fence, Item SPV.0090.09.

A Description

This special provision describes removing and reinstalling chain link fence on new posts according to the plans, as directed by the engineer, and as hereinafter provided.

B Materials

Furnish materials that conform to the applicable provisions of standard spec 616.

C Construction

Detach fence posts from fabric and bracing. Carefully remove existing posts and dispose of.

Set new fence posts according to the applicable provisions of standard spec 616.3.3.2.

Attach existing fence fabric, bracing, and gates according to the applicable provisions of standard spec 616.3.3.3.

D Measurement

The department will measure Remove and Reinstall Chain Link 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.0090.09	Remove and Reinstall Chain Link Fence	LF

Payment is full compensation for removing existing fabric, bracing, and gates; for disposing of fence posts; for storing existing fabric, bracing, and gates before reinstallation; for excavating; for providing new fence posts and all other materials required to erect new fence posts; and attach posts to existing fabric, bracing, and gates; for removing and disposing of all debris, excess excavation, and surplus materials.

129. Fence Chain Link Polymer-Coated 6-Ft, Item SPV.0090.10.

A Description

This special provision describes furnishing and installing a new 6-Ft. tall polymer-coated fence system and gates on according to the pertinent plan details, as directed by the engineer and as hereinafter provided. The color of all components in this fence system shall be the same and shall be black.

B Materials

All materials for this fence system shall be new stock, free from defects impairing strength, durability, and appearance. Fabric shall be produced by methods recognized as good commercial practice. Wire used in the manufacture of the fabric shall be capable of being woven into fabric without the polymer-coating cracking or peeling. Pipes used in framework shall be straight, true to section and free of defects. All burrs at the ends of pipes shall be removed before galvanizing. The polymer-coating shall be a dense impervious covering, applied without voids, tears or cuts that reveal the substrate. Excessive roughness, bubbles, blisters and flaking in the polymer-coating will be a basis for rejection.

B.1 Fabric

Provide steel chain link fence fabric conforming to the requirements of ASTM F668, Class 2b, a polymer-coating fused and adhered to wire that is zinc-coated. Provide fabric woven from 9-gage wire using plan specified mesh size, diamond pattern, with both the top and bottom selvages knuckled. The minimum breaking strength of the wire shall be 1290 lbs. The color of polymer-coating shall conform to the requirements of ASTM F934.

B.2 Framework

Provide steel rails, posts and post sleeves conforming to the requirements of ASTM F1083, Standard Weight Pipe (Schedule 40) of the size (O.D.) and weight as shown on the plans. The minimum yield strength shall be 30,000 psi and the minimum tensile strength shall be 48,000 psi. These components shall be zinc-coated inside and outside by the hot-dip process as stated in ASTM F1083. Provide polymer-coating over zinc-coating conforming to ASTM F1043. The color of polymer-coating shall conform to the requirements of ASTM F934, and match the color of the other fence components. Weld base plate to posts or post sleeves and complete any additional welding of components before galvanizing.

B.3 Fittings

Provide end post caps, line post caps, top rail sleeves, rail ends, line rail clamps, brace bands, tension bands, tension bars, and tie wires that are steel and conform to the requirements of ASTM F626. Tie wires shall be round and 9-gage wire. These components (excluding tie wires) shall be zinc-coated by the hot-dip process as stated in ASTM F626. Provide polymer-coating over zinc-coating on components (excluding tie wires) that conforms to the requirements of ASTM F626. For tie wires, provide polymer-coating on wire that is zinc-coated using the same procedure as used for the wires in the fence fabric. End post caps and line post caps shall fit tightly over posts to prevent moisture intrusion. Supply dome style caps for end posts and loop type caps for line posts. The color of polymer-coating shall conform to the requirements of ASTM F934, and match the color of the other fence components.

B.4 Bolts

All bolts are to be supplied with lock washers and nuts. Use galvanized steel bolts, nuts and washers per plan details.

B.5 Tests

B.5.1 Fabric and Tie Wire

Breaking Strength: ASTM A370

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM F668

Adhesion: ASTM F668

Accelerated Aging Test: ASTM F668, D1499

Mandrel Bend Test: ASTM F668

B.5.2 Framework

Tensile and Yield Strength: ASTM E8
Zinc-Coating Requirements
Weight of Zinc-Coating: ASTM A90
Polymer-Coating Requirements
Thickness of Polymer-Coating: ASTM E376
Adhesion: ASTM F1043
Accelerated Aging Test: ASTM F1043, D1499

B.5.3 Fittings

Zinc-Coating Requirements
Weight of Zinc-Coating: ASTM A90
Polymer-Coating Requirements
Thickness of Polymer-Coating: ASTM F626
Adhesion: ASTM F1043 (same test as for framework)
Accelerated Aging Test: ASTM F1043, D1499 (same test as for framework)

B.6 Submittals

In addition to the engineer, send submittals listed in this section to the name below for informational purposes:

David Nelson
WisDOT (Bureau of Structures)
4822 Madison Yards Way, 4th Floor South
P.O. Box 7916
Madison, WI 53707-7916

B.6.1 Shop Drawings

Submit shop drawings showing the details of fence construction. Show the fence height, post spacing, rail location, and all dimensions necessary for the construction of the chain link fence. Label the end posts, line posts, rails, post sleeves, top rail sleeves, bolts and fittings. State the polymer-coating type used on the fabric, framework and fittings and the Class of coating used on the fabric. State the color of polymer-coating to be used on the fence components. For the fabric, state the wire gage, mesh size, and type of selvages used. For the framework, state the size (O.D.) and unit weight for the posts and rails. For the fittings, state the size for top rail sleeves, brace bands, tension bands, tension bars, line rail clamps, size and type of bolts, and the tie wire gage. State the material type used for fabric, framework, and fittings. Also give the breaking strength for the fabric wire and the tensile and yield strength properties for the framework.

B.6.2 Specification Compliance

Submit certification of compliance with material specifications. Provide material certification and test documentation for fabric, framework, fittings and hardware that shows that all materials meet or exceed the specifications of this contract and the tests in section B5 of this specification. This document shall provide the name, address and phone number of the manufacturer, and the name of a contact person.

C Construction

C.1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and condition of materials is in conformance with these specifications. If polymer-coating is damaged, contractor shall repair or replace components as necessary to the approval of the engineer at no additional cost to the Owner. Carefully store material off the ground to ensure proper ventilation and drainage and to provide protection against damage caused by ground moisture. Handle all polymer-coated material with care.

C.2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to polymer-coated surfaces, touch-up the finish conforming to the manufacturer's recommendations. Provide touch-up coating such that repairs are not visible from a distance of 6-feet. If damage is beyond repair, the fencing component shall be replaced at no additional cost to the Owner. The contractor shall provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

C.3 General

Install the chain link fence conforming to ASTM F567 and the manufacturer's instructions. The contractor shall provide staff that is thoroughly familiar with the type of construction involved and materials and techniques specified. Chain link fabric shall be installed on the side of the posts indicated on the plans. Fabric shall be attached to the end posts with tension bars and tension bands. It shall be attached to rails, and posts without tension bands, with tie wires. The fabric shall be installed and pulled taut to provide a smooth and uniform appearance free from sag, without permanently distorting the fabric diamond or reducing the fabric height. Install top rail to pass through line post caps and form a continuous brace between end posts. Minimum length of top rail between splices shall be 20-feet. Splice top rail at joints with sleeves for a rigid connection. Locate splices near 1/4-point of post spacing. Heads of bolts shall be on the side of the fence adjacent to pedestrian traffic.

D Measurement

The department will measure Fence Chain Link Polymer-Coated 6-Ft. by the linear foot acceptably furnished and installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.10	Fence Chain Link Polymer-Coated 6-Ft	LF

Payment is full compensation for fabricating, galvanizing and polymer-coating all fence components, and transporting to jobsite; and for erecting components to create a polymer-coated fence system, including any touch-up and repairs.

130. Marking Line Yield Line Epoxy 18-Inch, Item SPV.0090.11.

A Description

This work includes applying Marking Line Yield Line Epoxy 18-Inch according to plan details, standard spec 646, and as hereinafter provided.

B Materials

Furnish materials for the work that conform to the requirements of standard spec 646.2.

C Construction

Use construction methods that are according to standard spec 646.3.

D Measurement

The department will measure Marking Line Yield Line Epoxy 18-Inch 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.0090.11	Marking Line Yield Line Epoxy 18-Inch	LF

Payment is full compensation according to standard spec 646.5.

131. Install Water Main Pipe 6-Inch, Item SPV.0090.40; Install Water Main Pipe 8-Inch, Item SPV.0090.41; Install Water Main Pipe 10-Inch, Item SPV.0090.42; Install Water Main Pipe 12-Inch, Item SPV.0090.43.

A Description

This special provision describes installing water main as shown on the plans and as hereinafter provided.

B Materials

B.1 Pipe

Provide tracer wire that is a minimum of 12 gauge solid core copper electric wire with blue PVC coating and rated for wet conditions. Stranded tracer wire is unacceptable. Provide all material for tracer wire connections.

Provide all materials for wrapping all below ground pipe and appurtenances according to AWWA C105.

TABLE 1
RESTRAINED PIPE LENGTH CHART

Minimum Length Requiring Restraint in Feet⁽¹⁾

<u>Fitting Type</u>	<u>< 8-Inch</u>	<u>8-Inch</u>	<u>10-Inch</u>	<u>12-Inch</u>
11.25-Degree Bend	10	10	10	10
22.5-Degree Bend	10	10	10	10
45-Degree Bend	10	10	10	10
90-Degree Bend	18	18	18	27
45-Degree Vertical Offset	10	18	18	27
Tee ⁽²⁾ - Runs	10	10	10	10
Tee ⁽²⁾ - Branch	10	10	18	27
Stub or Dead End	18	27	27	36
Valve ⁽³⁾	18	27	27	36

(1) Minimum length of pipe in feet to be tied together in each required direction from the fitting listed.

(2) Branch size no bigger than run size. Also applicable to cross with plugged end.

(3) For in-line valve, if pipe on both sides of valve is clear of bends, tees, and other flow interruption devices for the indicated restraint length, only valve joints need be restrained.

B.2 Granular Bedding and Backfill

Provide bedding and backfill conforming to standard spec 209.2.

C Construction

C.1 Trenching and Backfilling

Excavate and finish the trench to the depth required to provide a uniform base for the placement of 4 inches of granular bedding beneath the pipe. Level granular bedding to provide continuous bearing and support for the pipe. Following installation of the pipe, place granular backfill around the pipe, carefully worked under the haunches of the pipe and extended to one foot above the top of the pipe. Material native to the trench may be used for bedding and initial backfill provided it meets the requirements specified above for granular bedding and backfill.

Provide minimum depth of cover for water main as indicated on plans. Additional depth may be required to clear other utilities. When water main cross over or under sewers or force main, maintain minimum vertical separation as required by State and local codes. Determine required pipe profile to meet depth of cover requirements. If water main is installed prior to sewers on this project, and conflicts are discovered, adjust water pipe location at no additional cost.

Backfill material for water main from one foot above the top of pipe to the surface shall be material from trench excavation that is free of organic material and meets the approval of the engineer. Any excavated material from sewer trenches that is considered unsuitable by the engineer, will be removed from the site by the contractor. Mechanically compact backfill material to a minimum of 95% of the maximum dry density as determined by the Standard Proctor Test (ASTM D698). Replace unsuitable material with a granular backfill material conforming to the gradation requirements found in standard spec 209.2. Costs associated with the removal and disposal of existing material, furnishing, placing, and compaction of

granular backfill material are included in the unit price bid per cubic yard of Imported Water Main Trench Backfill.

Re-compact backfill material not meeting the above compaction requirements at no additional cost. Cost for additional testing required on re-compacted materials shall be at the contractor's expense.

Maximum allowable trench width from bottom of trench to top of pipe shall be 36 inch.

C.2 Material Inspection

Inspect pipe, fittings, and appurtenances for defects when picked up and prior to lowering into the trench. Remove defective material from the job site. All material shall be clean and free of deleterious substances prior to use in the work.

C.3 Laying and Jointing

Lay pipe accurately to the line and grade as designated. Preparatory to making pipe joints, clean all surfaces of the portions of the pipe to be joined or of the factory-made jointing material. Remove all coatings, rust, and scale from the spigot and the bell.

Wrap all below ground pipe and appurtenances according to AWWA C105, including: ductile iron pipe, fittings, valves and valve boxes, corporations, curb stops and curb boxes (their entire length), all portions of hydrants below grade, copper water services, and all metal restraining devices.

After placing a length of pipe in the trench, center the spigot end in the bell, force the pipe home, and bring pipe to correct line and grade according to the pipe manufacturer's recommendations for the type of joint.

Push pipe home by using a cross member and levers or jacks. It will not be permissible to push pipe home with motor powered excavation equipment.

Conform the maximum joint deflection for the various sizes and types of joints to the manufacturer's recommendations.

Restrain pipe joints as specified under the "Materials" section of this article.

Secure the pipe in place with approved backfill material tamped around it except at the bells. Keep trenches water-free and as dry as possible during bedding, laying, and jointing and for as long a period as required to permit proper execution of the work.

At times when piping laying is not in progress, close the open ends of pipe with plugs to prevent the entry of foreign material. Remove all foreign material from the pipe prior to acceptance.

For all non-conductive pipe materials and services, a tracer wire is to be installed with the pipe. The wire is to be placed on the top of the pipe and taped in place. Tracer wire shall be run along pipe from hydrant to hydrant. Wire shall be taped to each length of pipe at a minimum of two points. A maximum of one splice will be allowed between each hydrant. All tracer wire ends must be grounded.

Run tracer wire along polyethylene (plastic) laterals to and up/down all curb boxes and along remaining lateral length into property. Copper laterals do not require tracer wire, but the tracer wire shall be attached to the copper lateral by connecting to the thaw wire type copper tube nut at outlet end of corporation stop or using a bronze ground clamp.

Wire splices shall be soldered with a self-flux 50-50 rosin core solder and tightly wrapped with electrical tape, so no copper wire is exposed.

After the contractor has completed all the underground installation on the project, the contractor shall test the electrical continuity of all the tracer wire installations on the project with the engineer. The contractor shall be responsible for any costs of any repairs that may be required.

C.4 Dewatering

Keep the trench free of water during water main installation. Provide all dewatering measures necessary to maintain a water free trench including but not limited to DNR permits and management of pumped water to prevent erosion and siltation downstream of point of discharge. Dewatering shall be considered incidental to this item of work.

C.5 Removing Existing Pipe

Removals of existing water pipes, including existing valves not designated for salvage, required as part of new water main construction shall be performed as incidentals to this item of work.

C.6 Disinfection and Bacteriological Tests

Disinfect and conduct bacteriological tests on water main according to AWWA C651.

During installation, place calcium hypochlorite granules in water main. Upon completion, fill main with water and allow to stand for 24 hours. Operate intermediate valves during sterilization process. Keep piping being chlorinated isolated from lines in service.

After disinfection, flush main and test water for coliform bacteria.

1. Take two sets of samples at representative locations. Either take an initial set of samples and then resample again after a minimum of 16 hours (AWWA C651 Option A) or let main sit for a minimum of 16 hours without use and then without flushing collect two sets of samples a minimum of 15 minutes apart while sampling taps are left running (AWWA C651 Option B).
2. For new mains, sets of samples shall be collected every 1200 feet of new main, plus one set from end of line and at least one set from each branch greater than one pipe length.
3. Test samples for bacteriological quality according to AWWA "Standard Methods for the Examination of Water and Wastewater". Tests shall show the absence of coliform bacteria.
4. If tests show the presence of coliform bacteria, rechlorinate main and repeat tests until satisfactory results are obtained.

Main shall not be connected to the active water system until satisfactory bacteriological test results are obtained. Fittings, taps, and extra work involved in sampling or rechlorinating to meet this requirement shall be provided by contractor at no extra cost.

The cost of disinfection and bacteriological testing and reporting, shall be included in the price as bid under Water Main Pipe.

C.7 Hydrostatic Tests

Conduct hydrostatic pressure tests and leakage tests of all joints according to the requirements of AWWA C600. During performance of the hydrostatic pressure test, subject main to a minimum pressure of 150 psi for at least 2 hours. Remove all air from the water main during testing by flushing and by installing corporations at high points.

Prior to conducting the pressure and leakage test, backfill the trench for its full depth. Adequately block and tie all bends and special connections to the main prior to the test. Correct all damage caused to the water main or its appurtenances during performance of these tests at no additional cost.

Keep a record of all tests performed. Show the individual lengths of main tested and test results.

Where connections are made to existing mains, provide the necessary hydrostatic tests on all new mains installed. This may require, but is not limited to, the installation of temporary valves to isolate the new system from the existing system. Furnish all materials, work and equipment necessary for this work.

C.8 Continuity Tests

Furnish all equipment, labor and miscellaneous items necessary to perform electrical continuity tests on all new water main installed. Perform tests using an ohmmeter to assure that electrical continuity exists across all ductile iron joints. Make all necessary repairs to establish continuity across joints.

C.9 Order of Doing Work

Install and test all new water main prior to connection to existing facilities.

In placing the new water main into service and connecting existing facilities, take care to minimize water outage times. Outages of up to 4 hours are acceptable. Notify all existing water users of the time and estimated duration of water outage required for connections. Provide a minimum of 24 hours' notice.

Outages beyond 4 hours will require that a temporary water service be installed, unless permission to extend the outage is approved by the engineer and individual users 24 hours prior to outage.

Maintain service, and provide the minimum notice of interruptions as specified above, in all water mains connecting to the water mains being replaced. This may require partial testing and disinfection of the new water main and/or installing temporary valves prior to disturbing an existing water main connection. Partial testing and temporary valves (if required) will be incidental to water main work.

D Measurement

The department will measure Install Water Main Pipe (diameter) by the linear foot, acceptably completed. Measurement will be through valves and fittings to centerline of connecting main, end of pipe, valve, or fitting.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.40	Install Water Main Pipe 6-Inch	LF
SPV.0090.41	Install Water Main Pipe 8-Inch	LF
SPV.0090.42	Install Water Main Pipe 10-Inch	LF
SPV.0090.43	Install Water Main Pipe 12-Inch	LF

Payment is full compensation for furnishing all materials not provided by Manitowoc Public Utilities. For installation of water main and fittings; for excavation, dewatering, backfilling, compacting, testing, and miscellaneous materials which may be necessary to perform the installation; and for disposing of excess materials.

132. Water Service Pipe 1 1/4-Inch, Item SPV.0090.44.

A Description

This special provision describes furnishing and installing water service pipe from connection at the water main to connection at the existing water service at the street right-of-way line, or to the right-of-way line of empty lots without water service, as shown on the plans and as hereinafter provided.

B Materials

Provide water service pipe consisting of Polyethylene (PE 3408) Pressure Pipe and Tubing, CTS (Copper Tubing Size) rated for 200 PSI service laterals, 1 1/4" inch size, shall conform to ANSI/AWWA C901 – Latest Revision in sizes and length specified on the design plans. Polyethylene tubing shall conform to the outside diameter dimensions of Type K Copper.

The PE tubing shall be homogeneous throughout and free of visible cracks, holes, foreign inclusions or other defects. It shall be uniform in color, opacity, density and other physical properties. Surfaces of the product shall be free from scratches, gouges, bloom and color imperfections. The PE tubing shall be permanently identified as PE 3408 water service tubing and the markings shall also include manufacturer's brand name or trademark and production record code, nominal size, NSF logo, pressure class (PC 200), AWWA designation number (AWWA C901-02) and date of manufacture. DR 9 200 PSI tubing (CTS-OD) will be color coded with a blue stripe and marked with the word "Tubing" and the dimension ratio. A stainless-steel stiffener is required on the inside of the PE tubing at all connections.

C Construction

Install new water service pipe following successful testing of new water mains. Reconnect all existing water services to the new water mains. Install water services with an approximate one-foot bend in the horizontal plane near the new water main and run without fittings to the new curb stop. Bed and cover water service tubing with a minimum of 4 inches of clean sand. Abandon existing services by shutting off existing corporation cock at existing main or curb stop and removing the existing curb box. Prior to shutting off of water for the change of service from old water main to new water main, notify the affected building occupants of the time of shut off and the expected duration of shutoff at least 24 hours in advance.

Backfill material for water service from top of bedding to the surface shall be material from trench excavation that is free of organic material and meets the approval of the engineer. Any excavated material from sewer trenches that is considered unsuitable by the engineer, will be removed from the site by the contractor. Mechanically compact backfill material to a minimum of 95% of the maximum dry density as determined by the Standard Proctor Test (ASTM D698). Replace unsuitable material with a granular backfill material conforming to the gradation requirements found in standard spec 209.2. Costs associated with the removal and disposal of existing material, furnishing, placing, and compaction of granular backfill material are included in the unit price bid per cubic yard of Imported Water Main Trench Backfill.

D Measurement

The department will measure Water Service Pipe 1 1/4-Inch by the horizontal linear foot, acceptably completed. Measurement will be from centerline of water main through fittings and valves to end of service.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.44	Water Service Pipe 1 1/4-Inch	LF

Payment is full compensation for furnishing and installing all materials, including pipe, (excluding corporation stop and curb stop), and sand bedding and cover; for excavation, dewatering, abandonment of existing service, notification of building occupants, and backfilling and compaction with existing materials; and for disposing of excess materials.

133. **Furnishing and Installing Sanitary Sewer Pipe 8-Inch, Item SPV.0090.60; Furnishing and Installing Sanitary Sewer Pipe 12-Inch, Item SPV.0090.61; Furnishing and Installing Sanitary Sewer Pipe 21-Inch, Item SPV.0090.62.**

A Description

This special provision describes furnishing and installing new sanitary sewer as shown on the plans and as hereinafter provided.

B Materials

Provide PVC sewer pipe, ASTM D3034, SDR-26, with elastomeric gasket type joints. Make lateral connections to the sanitary sewer mains using a factory fabricated in-line wyes.

Provide couplings to connect new pipe to existing pipe which comply with ASTM C1173 and use connectors that have a rubber or elastomeric sleeve and stainless steel band assembly complying with ASTM C923 and fabricated to mate with the outer diameter of pipes to be joined. When connecting to existing concrete or clay pipe that has been lined, use a flexible connector to mate with the liner and not the concrete or clay pipe.

If the upstream pipe has a larger diameter than the downstream pipe to which it is to be joined, provide an eccentric pipe fitting if required to maintain a pipe invert continuously sloped in the downstream direction.

Underground pipe tracer wire is required and is to be continuous and un-spliced. Provide 12 gauge tracer wire green in color with a plastic corrosion protective coating.

Pipe bedding and cover material will consist of 3/4 inch crushed stone chips conforming to Section 8.43.2(a) of Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

C Construction

Inspect pipe, fittings and appurtenances for defects when delivered to the job site and prior to lowering into the trench. Remove defective material from the job site. All material is to be clean and free of deleterious substances prior to use in the work.

Maintain sewage service during construction. Pumping sewage around the work site and any other temporary measures required will be considered incidental to this item of work.

Keep the trench free of water during sanitary sewer installation. Provide all dewatering measures necessary to maintain a water free trench including but not limited to DNR permits and management of pumped water to prevent erosion and siltation downstream of point of discharge. Dewatering is to be considered incidental to this item of work.

The locations of proposed sewer pipe relays are determined by use of the City of Manitowoc televising equipment and are close approximations of the locations. The engineer will field mark all sewer pipe locations prior to any sewer pipe repair work beginning.

Excavate and finish the trench to the depth required to provide a uniform base for the placement of granular bedding beneath the pipe. Level granular bedding to provide continuous bearing and support for the pipe.

Install sanitary sewer pipe to an elevation tolerance of plus or minus 0.03 feet of plan elevation or elevations provided on the grade sheet at any point along the pipe. Make connections to existing sanitary sewer at the locations shown on the plans. Make the joint reconnecting the existing sewer to the new

relaid sewer with a flexible connector with stainless steel band seals, unless another jointing method is approved by the engineer. Make the connection by installing connector according to manufacturer's recommendations. Verify that each active service is reconnected.

Make connections to new sanitary sewer manholes at the locations shown on the plans. Install new pipe in flexible manhole connector (boot) complying with ASTM C923. If a boot is not present in an existing manhole structure and cannot be retrofit to manhole, use waterstop and hydraulic cement to waterproof the connection.

Install in-line wye connections at location for each lateral service. Install wye fittings or tees at an angle of 45 degree up from the horizontal for risers.

The contractor will furnish and install tracer wire along the entire length of any new pipe being installed according to the plan details. Proof of continuity is required upon installation, repair, or replacement of tracer wire.

Following installation of the pipe, place granular backfill around the pipe, carefully work it under the haunches of the pipe and extend it to 1 foot above the top of the pipe. Native material may be used for backfill provided it meets the requirements specified for granular bedding and backfill.

Backfill material for sanitary sewer from one foot above the top of pipe to the surface is to be material from trench excavation that is free of organic material and meets the approval of the engineer. Any excavated material from sewer trenches that is considered unsuitable by the engineer, will be removed from the site by the contractor. The contractor will replace this unsuitable material with a granular backfill material conforming to the gradation requirements found in Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition Section 8.43.4 or pit run material conforming to the gradation requirements found in standard spec 313, EXCEPT that the maximum size of individual stone pieces is not to exceed 6 inches. Costs associated with the removal and disposal of existing material, furnishing, placing, and compaction of granular backfill material are included in the unit price bid per cubic yard of Imported Trench Backfill .

Mechanically compact backfill material to a minimum of 95% of the maximum dry density as determined by the Standard Proctor Test (ASTM D698). Re-compact backfill material not meeting the above compaction requirements at no additional cost. Cost for additional testing required on re-compacted materials is at the contractor's expense.

Perform deflection tests on all PVC plastic pipe after final backfill is placed. Test in presence of engineer. Deflection is limited to 5 percent of base inside pipe diameter if tested within 30 days of placement of final backfill. Maximum deflection can not exceed 7.5 percent of base inside pipe diameter when testing occurs more than 30 days after placement of final backfill. Supply a rigid ball, mandrel, or other approved device of proper size, and pull it manually without mechanical assistance through sewer; failure to pass freely is cause for rejection of sewer.

D Measurement

The department will measure Furnishing and Installing Sanitary Sewer Pipe (diameter) by the linear foot, acceptably completed. Measurement will be from center to center of manhole casting of new or existing manholes or to end of sewer pipe not terminating in a manhole. New sewers which begin at an existing connection 6 inches or more outside an existing manhole wall will be measured from the connection.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.60	Furnishing and Installing Sanitary Sewer Pipe 8-Inch	LF
SPV.0090.61	Furnishing and Installing Sanitary Sewer Pipe 12-Inch	LF
SPV.0090.62	Furnishing and Installing Sanitary Sewer Pipe 21-Inch	LF

Payment is full compensation for furnishing and installing all materials, including pipe, tracer wire, couplings, fittings, in-line wyes, connectors, and miscellaneous materials required for the connection; for excavation, dewatering, backfilling, compaction, testing, and bypass pumping; locating and verifying that the service is active; for disposing of excess materials.

- 134. Furnishing and Relaying Sanitary Sewer Pipe 8-Inch, Item SPV.0090.63;
Furnishing and Relaying Sanitary Sewer Pipe 12-Inch, Item SPV.0090.64;
Furnishing and Relaying Sanitary Sewer Pipe 15-Inch, Item SPV.0090.65;
Furnishing and Relaying Sanitary Sewer Pipe 24-Inch, Item SPV.0090.66.**

A Description

This special provision describes furnishing and relaying new sanitary sewer as shown on the plans and as hereinafter provided.

B Materials

Provide PVC sewer pipe, ASTM D3034, SDR-26, with electrometric gasket type joints. Make lateral connections to the proposed relayed sanitary sewer mains using a factory fabricated in-line wyes.

Provide couplings to connect new pipe to existing pipe which comply with ASTM C1173 and flexible connectors that have a rubber or elastomeric sleeve and stainless steel band assembly fabricated to mate with the outer diameter of pipes to be joined and complying with ASTM C923. When connecting to existing concrete or clay pipe that has been lined, use a flexible connector to mate with the liner and not the concrete or clay pipe.

If the upstream pipe has a larger diameter than the downstream pipe to which it is to be joined, provide an eccentric pipe fitting if required to maintain a pipe invert continuously sloped in the downstream direction.

Underground pipe tracer wire is required and is to be continuous and un-spliced. Provide 12-gauge solid copper tracer wire green in color with a plastic corrosion protective coating.

Pipe bedding and cover material will consist of 3/4-inch crushed stone chips conforming to Section 8.43.2(a) of Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

C Construction

Inspect pipe, fittings and appurtenances for defects when delivered to the job site and prior to lowering into the trench. Remove defective material from the job site. All material is to be clean and free of deleterious substances prior to use in the work.

Maintain sewage service during construction. Pumping sewage around the work site and any other temporary measures required will be considered incidental to this item of work.

Keep the trench free of water during sanitary sewer installation. Provide all dewatering measures necessary to maintain a water free trench including but not limited to DNR permits and management of pumped water to prevent erosion and siltation downstream of point of discharge. Dewatering is to be considered incidental to this item of work.

The locations of proposed sewer pipe relays are determined by use of the City of Manitowoc televising equipment and are close approximations of the locations. The engineer will field mark all sewer pipe locations prior to any sewer pipe repair work beginning.

Excavate and finish the trench to the depth required to remove the existing pipe and provide a uniform base for the placement of pipe bedding beneath the new pipe. Remove the existing pipe to the next good joint and relayed in-kind. Level granular bedding to provide continuous bearing and support for the pipe.

If existing pipe can be crushed and broken into pieces no larger than 6 inches in size, it may be mixed into and compacted with backfill soil that is 1 foot or more above the top of the new pipe. Pipe, which cannot be crushed, is to be completely removed from the ground and disposed of.

Install sanitary sewer pipe to an elevation tolerance of plus or minus 0.03 feet of plan elevation or elevations provided on the grade sheet at any point along the pipe. Make connections to existing sanitary sewer at the locations shown on the plans. Make the joint reconnecting the existing sewer to the new relaid sewer with a flexible connector, unless another jointing method is approved by the engineer. Make the connection by installing coupling according to manufacturer's recommendations.

Make connections to new sanitary sewer manholes at the locations shown on the plans. Install new pipe in flexible manhole connector (boot) complying with ASTM C923. If a boot is not present in an existing manhole structure and cannot be retrofit to manhole, use waterstop and hydraulic cement to waterproof the connection.

Install in-line wye connections at location for each lateral service. Install wye fittings or tees at an angle of 45 degree up from the horizontal for risers.

The contractor will furnish and install tracer wire along the entire length of any new pipe being installed according to the plan details. Proof of continuity is required upon installation, repair, or replacement of tracer wire.

Following installation of the pipe, place granular backfill around the pipe, carefully work it under the haunches of the pipe and extend it to 1 foot above the top of the pipe.

Backfill material for sanitary sewer from one foot above the top of pipe to the surface will be material from trench excavation that is free of organic material and meets the approval of the engineer. Any excavated material from sewer trenches that is considered unsuitable by the engineer, will be removed from the site by the contractor. The contractor will replace this unsuitable material with a granular backfill material conforming to the gradation requirements found in Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition Section 8.43.4 or pit run material conforming to the gradation requirements found in standard spec 313, EXCEPT that the maximum size of individual stone pieces is not to exceed 6 inches. Costs associated with the removal and disposal of existing material, furnishing, placing, and compaction of granular backfill material are included in the unit price bid per cubic yard of Imported Trench Backfill.

Mechanically compact backfill material to a minimum of 95% of the maximum dry density as determined by the Standard Proctor Test (ASTM D698). Re-compact backfill material not meeting the above compaction requirements at no additional cost. Cost for additional testing required on re-compacted materials is at the contractor's expense.

Perform deflection tests on all PVC plastic pipe after final backfill is placed. Test in presence of engineer. Deflection is limited to 5 percent of base inside pipe diameter if tested within 30 days of placement of final backfill. Maximum deflection will not exceed 7.5 percent of base inside pipe diameter when testing occurs more than 30 days after placement of final backfill. Supply a rigid ball, mandrel, or other approved device of proper size, and pull it manually without mechanical assistance through sewer; failure to pass freely is cause for rejection of sewer.

D Measurement

The department will measure Furnishing and Relaying Sanitary Sewer Pipe (diameter) by the linear foot acceptably completed. Measurement will be from center to center of manhole casting of new or existing manholes or to end of sewer pipe not terminating in a manhole. New sewers which begin at an existing connection 6 inches or more outside an existing manhole wall will be measured from the connection.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.63	Furnishing and Relaying Sanitary Sewer Pipe 8-Inch	LF
SPV.0090.64	Furnishing and Relaying Sanitary Sewer Pipe 12-Inch	LF
SPV.0090.65	Furnishing and Relaying Sanitary Sewer Pipe 15-Inch	LF
SPV.0090.66	Furnishing and Relaying Sanitary Sewer Pipe 24-Inch	LF

Payment is full compensation for removing and properly disposing of the existing pipe sections and replacing them with the specified size and type of pipe; furnishing the pipe, couplers, and manufacturer's certificates for the pipe; tracer wire, couplings, connectors, in-line wyes, fittings, and miscellaneous materials required for the connection; for excavation, dewatering, backfilling, compaction, testing, and bypass pumping; hauling and properly disposing of excavated detrimental objects and materials; locating and verifying that the service is active.

135. Remove Existing Sanitary Sewer, Item SPV.0090.67.

A Description

This special provision describes removing existing sanitary sewer pipe as shown on the plans and as hereinafter provided.

B Materials

Any excavated material from sewer trenches that is considered unsuitable by the engineer, will be removed from the site by the contractor. The contractor will replace this unsuitable material with a granular backfill material conforming to the gradation requirements found in Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition Section 8.43.4 or pit run material conforming to the gradation requirements found in Standard Spec 313, except that the maximum size of individual stone pieces is not to exceed 6 inches. Costs associated with the removal and disposal of existing material, furnishing, placing, and compaction of granular backfill material are included in the unit price bid per cubic yard of Imported Sanitary Sewer Trench Backfill.

C Construction

The locations of proposed sewer pipe removals are determined by use of the City of Manitowoc televising equipment and are close approximations of the locations. The engineer will field mark all sewer pipe locations prior to any sewer pipe removal work beginning.

Excavate and finish the trench to the depth required to remove the existing pipe. Following the complete removal of the pipe, place granular backfill in the trench. Material native to the trench may be used for backfill provided it meets the requirements specified above for granular bedding and backfill.

D Measurement

The department will measure Remove Existing Sanitary Sewer, by the linear foot acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.67	Remove Existing Sanitary Sewer	LF

Payment is full compensation for furnishing all materials, bulkheads, excavating and backfilling where necessary.

136. Sanitary Lateral 6-Inch, Item SPV.0090.68.

A Description

This work consists of furnishing and installing sanitary sewer laterals to the requirements of the plans.

B Materials

Provide schedule 40, polyvinyl chloride pipe conforming to the requirements of ASTM D1785/D2665.

With new sanitary sewer pipe, make lateral connections to the sanitary sewer mains using factory fabricated in-line wyes.

With existing sanitary sewer pipe that is CIPP lined, make lateral connections to the sanitary sewer mains using Fernco Flexible wye saddle and a TSPK-46 saddle pressure kit.

Pipe bedding and cover material will consist of 3/4-inch crushed stone chips conforming to Section 8.43.2(a) of Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

Provide a PVC cap or an engineer approved alternate conforming to the outside diameter being installed. This is only required where laterals are being installed for future use and not connected to an existing service.

Underground tracer wire is required and will comply with the plan details. Waterproof wire nuts or splice kits are required when splicing of tracer wire is performed and on the ends of the terminating tracer wire. Underground tracer wire is to be 12-gauge solid copper with a corrosion protective coating and color green for sanitary.

Provide a 1-inch PVC Schedule 40 conduit with a removable threaded galvanized metal cap. There should be 24-inch-long #4 rebar placed 6 inches below grade and adjacent to the tracer wire access point.

C Construction

Construct sanitary laterals according to the plan details. The contractor will field verify location and type of sanitary sewer laterals and connect to proposed or existing sanitary main, appropriate bends, pipeline, and transition connector. Sewer laterals will be visually inspected. All exposed sanitary laterals will be connected by end of the day.

When connecting to existing sanitary main with flexible wye saddle. Break away existing host pipe and install saddle against the CIPP pipe liner. The existing lateral opening of the CIPP may have to be cut or trimmed to ensure the new saddle is installed properly.

Place lateral where designated on the plans and run straight and perpendicular to street and as close as possible to the water service from main to connection with existing lateral. Connect risers at the sewer main on a 45 degree angle.

The contractor will field verify sanitary lateral invert elevations to existing buildings. Sanitary laterals may need to be lowered to avoid the proposed watermain and storm sewer conflicts. Dye testing may be required to field verify existing active sanitary laterals.

The contractor will furnish and install tracer wire along the entire length of any new pipe being installed according to the plan details. Proof of continuity is required upon installation, repair, or replacement of tracer wire.

Backfill all trenches with excavated material, unless directed otherwise by the engineer. Use Imported Sanitary Sewer Trench Backfill when excavated material is unsuitable for backfill, as directed by the engineer. Place material according to standard spec 608.3.5.

At locations specified on the plans cap the sanitary lateral. To do so place a watertight bulkhead in the end of the sanitary sewer lateral pipe in a manner that seals the pipe, but allows for future removal of the bulkhead without damaging the sanitary sewer lateral. The City of Manitowoc will determine which laterals are active for reconnection.

D Measurement

The department will measure Sanitary Lateral 6-Inch, by the linear foot, acceptably completed, in place and the quantity measured for payment will be measured from center of main or end of riser to connection point, as shown on the plan details.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.68	Sanitary Lateral 6-Inch	LF

Payment is full compensation for furnishing all materials including inline and flexible wye connectors, all fittings, tracer wire, tracer wire access points, dye testing; for furnishing all excavations, laying pipe, and making connections to all new or existing facilities; for removal of existing sewers; for furnishing all bedding material; for backfilling and compaction; for cleanup, and restoring the site of the work.

137. Sanitary Lateral Risers 6-Inch, Item SPV.0090.69.

A Description

This special provision describes the furnishing and installation of sanitary lateral risers, as specified on the plans.

B Materials

Provide schedule 40, polyvinyl chloride pipe conforming to the requirements of ASTM D1785/D2665.

Pipe bedding and cover material will consist of 3/4-inch crushed stone chips conforming to Section 8.43.2(a) of Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

Provide tracer wire that is 12-gauge solid copper with a corrosion protective coating and color green for sanitary.

C Construction

Construct sanitary lateral risers according to the plan details and Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

Place lateral riser where designated by the City of Manitowoc and run straight and as perpendicular to street and as close as possible to the water service from main to connection with existing lateral.

Construct risers at a 45 degree angle.

Connect riser to wye provided under the bid item sanitary lateral 6-inch.

Backfill all trenches with excavated material unless directed otherwise by the engineer. Use Imported Sanitary Sewer Trench Backfill when excavated material is unsuitable for backfill, as directed by the engineer. Place material according to standard spec 608.3.5.

D Measurement

The department will measure Sanitary Lateral Risers by the linear foot in place, acceptably completed, as measured from the top of the main line sewer to the height where the riser pipe ends and the horizontal lateral starts and continues toward the building or lot.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.69	Sanitary Lateral Risers 6-Inch	LF

Payment is full compensation for furnishing all materials including all fittings, tracer wire, for furnishing all excavations, laying pipe, and making connections to wye provided under Sanitary Lateral 6-Inch; for furnishing all bedding material; for backfilling and compaction; for cleanup, and restoring the site of the work.

Any riser/vertical pipe (bends) installed in the lateral portion that is outside the connection to the sanitary main will be paid under item Sanitary Lateral 6-Inch.

138. Abandoning Sanitary Sewer, Item SPV.0090.70

A Description

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

B Materials

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

C Construction

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

D Measurement

The department will measure Abandoning Sanitary Sewer 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.0090.70	Abandoning Sanitary Sewer	LF

Payment is full compensation for furnishing all materials and excavating and backfilling where necessary.

139. Storm Sewer Pipe PVC 12-Inch Affixed to Existing Sewer, Item SPV.0090.71.

A Description

This special provision describes furnishing and installing storm sewer according to standard spec 612, as shown in the plans, and as hereinafter provided.

B Materials

Furnish pipe and fittings furnished shall meet the requirements for Type PSM Polyvinyl Chloride (PVC) Storm Sewer Pipe and fittings as set forth in ASTM Designation D-3034 and subsequent revisions thereof.

The dimensions of the pipe shall be according to ASTM D-3034 (SDR rating 35). The wall thickness shall not be less than that specified except that isolated arcs spanning no more than 15 degrees of the perimeter shall not be less than 95% of the specified minimum.

Each length of pipe and each fitting shall be marked as follows:

- Manufacturer's name or trademark
- Nominal pipe size.
- The PVC cell classification, e.g., 12454-B.
- The legend Type PSM PVC Sewer Pipe.
- ASTM Designation D-3034

Pipe fittings shall be according to all manufacture's recommendations.

All pipe and fittings shall be by one (1) manufacturer, and shall have elastomeric joints conforming to the requirements of ASTM F-477 and D-3212. PVC gasketed sewer fittings shall conform to the requirements of ASTM F-1336.

Flexible couplings shall be manufactured from flexible polyvinyl chloride (PVC) intended for water-tight joints and shall be 3/8-inch thick with multiple sealing ribs. Each coupling shall consist of 2-Series 300 (18-8) all stainless steel, extra strength (0.040 thick) T-bolt clamps with multiple take up points. The flexible coupling shall conform to the applicable parts of ASTM C443, C425, C564, D1869, and C1173. The flexible couplings shall be manufactured to connect the PVC replacement pipe with pipes of different materials.

C Construction

Perform construction operations according to the applicable portions of standard spec 608.3 and as shown in the plan. Securely connect the PVC pipe to the crown of the existing storm sewer in a manner that does not damage PVC pipe.

D Measurement

The department will measure Storm Sewer Pipe PVC 12-Inch Affixed to Existing Sewer 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.0090.11	Storm Sewer Pipe PVC 12-Inch Affixed to Existing Sewer	LF

Payment is full compensation for providing the storm sewer; for cleaning out; connecting the PVC storm sewer to the inside of the existing storm sewer pipe; for connecting to private laterals and private storm inlets; for connecting to the storm sewer network; for restoring the work site.

140. Grading and Shaping Emergency Vehicle Railroad Crossing, Item SPV.0105.01.

A Description

This special provision describes excavating, filling, grading, shaping, and compacting, as necessary to construct the emergency vehicle railroad crossing as shown on the plans and according to the pertinent requirements of the standard specifications and as hereinafter provided.

B (Vacant)

C Construction

Construct temporary roadway and railroad crossing from City of Manitowoc Parks & Recreation Maintenance Facility to Fairmont Street.

Dispose of all surplus and unsuitable material according to standard spec 205.3.12.

D Measurement

The department will measure Grading and Shaping Emergency Vehicle Railroad Crossing as a single complete 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.0105.01	Grading and Shaping Emergency Vehicle Railroad Crossing	LS

Payment is full compensation for all excavating, grading, shaping, and compacting; and for providing and placing fill.

The concrete curb removal, base course, concrete curb and gutter replacement, finishing, and erosion control items will be measured and paid for under the pertinent items provided in the contract.

141. Construction Staking Emergency Vehicle Railroad Crossing, Item SPV.0105.02.

A Description

This work describes staking for Emergency Vehicle Railroad Crossing according to the pertinent requirements of standard spec 650 and as hereinafter provided.

B (Vacant)

C Construction

Set and maintain construction stakes or marks necessary in order to establish the horizontal alignment and vertical elevation according to the plans.

D Measurement

The department will measure Construction Staking Emergency Vehicle Railroad Crossing as a single complete 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.0105.02	Construction Staking Emergency Vehicle Railroad Crossing	LS

Payment is according to standard spec 650.5 and includes full compensation for resetting damaged or missing construction stakes; and for protecting and reestablishing the alignment of temporary crossing.

**142. Construction Staking Trees and Landscaping Project 1500-37-74, Item SPV.0105.03;
Construction Staking Trees and Landscaping Project 4570-12-71, Item SPV.0105.04.**

A Description

This work describes staking for Staking Trees and Landscaping according to the pertinent requirements of standard spec 650 and as hereinafter provided.

B (Vacant)

C Construction

Set and maintain construction stakes or marks necessary in order to establish the horizontal location of trees, plantings, and landscaping features according to the plans.

D Measurement

The department will measure Construction Staking Trees and Landscaping (Project) as a single complete 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.0105.03	Construction Staking Trees and Landscaping Project 1500-37-71	LS
SPV.0105.04	Construction Staking Trees and Landscaping Project 4570-12-71	LS

Payment is according to standard spec 650.5 and includes full compensation for resetting damaged or missing construction stakes; and for protecting and reestablishing stakes.

**143. Preservation of Existing Monuments Project 1500-37-74, Item SPV.0105.05;
Preservation of Existing Monuments Project 4570-12-71, Item SPV.0105.06.**

A Description

This special provision describes the locating and measuring of existing monuments within the project area as direct by the engineer and as hereinafter provided.

Monuments are defined as objects that have been set into the ground to represent a position on the earth. These objects can be, but are not limited to, iron pipes, iron rods, P/K nails, 6-inch nails, railroad spikes, chiseled crosses, etc.

This provision does not relinquish the contractor of their responsibility under standard spec 107.11.

B (Vacant)

C Construction

Perform all aspects of the Preservation of Existing Monuments under the direction of licensed land surveyor registered under s.443.06 Wisconsin Statutes.

Locate and measure existing monuments within the project limits, prior to beginning construction operations. Provide all documentation to the engineer.

A Surveyor's Report shall be provided to the engineer and to the City of Manitowoc. This report will include:

- The location and type of monumentation found prior to construction.
- The procedures used to measure the existing monumentation.
- A land surveyor's certificate including a disclaimer that this is not a boundary survey, signature, date, and seal.

The survey contact person for City of Manitowoc is Mike Zimmer, (920) 686-6910.

D Measurement

The department will measure Preservation of Existing Monuments (Project) as a single lump sum unit for all 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.0105.05	Preservation of Existing Monuments Project 1500-37-74	LS
SPV.0105.06	Preservation of Existing Monuments Project 4570-12-71	LS

Payment is full compensation for initial location of the existing monuments; measuring the located monuments; verifying that the monuments have not been disturbed or destroyed; providing a Surveyor's Report.

144. Verify and Restoring of Existing Monuments Project 1500-37-74, Item SPV.0105.07; Verify and Restoring of Existing Monuments Project 4570-12-71, Item SPV.0105.08.

A Description

This special provision describes the verifying and restoring existing monuments, as necessary, within the project area, as directed by the engineer, and as hereinafter provided.

B Materials

Monuments to be placed will be in compliance with AE-7 Wisconsin Administration Code. Monuments will typically be a 1-inch by 2-foot iron pipe. If it is determined that it is not feasible to place an iron pipe, the licensed land surveyor will determine the proper material to be set based on discussions with the engineer.

C Construction

Perform all aspects of the Verify and Restoring of Existing Monuments under the direction of licensed land surveyor registered under s.443.06 Wisconsin Statutes and according to the details in the plan.

If it is determined that certain monuments have been disturbed or destroyed, then place material, as set forth in this special provision, at the same position that it was found and 0.05 feet below the finished surface if feasible. Do this after construction is complete and with the aid of the preconstruction measurement information.

Provide a Surveyor's Report to the engineer and to the City of Manitowoc. This report will include:

- The location and type of monumentation that was restored.
- The materials that were placed at the disturbed or destroyed locations.
- The procedures used to place the materials.
- A land surveyor's certificate including a disclaimer that this is not a boundary survey, signature, date, and seal.

The survey contact person for City of Manitowoc is Mike Zimmer, (920) 686-6910.

D Measurement

The department will measure Verify and Restoring of Existing Monuments (Project) as a single lump sum unit for all 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.0105.07	Verify and Restoring of Existing Monuments Project 1500-37-74	LS
SPV.0105.08	Verify and Restoring of Existing Monuments Project 4570-12-71	LS

Payment is full compensation for verifying the location of all monuments previously located under the item "Preservation of Existing Monuments"; replacing or restoring the monuments that were disturbed or destroyed to their preconstruction position; providing a Surveyor's Report.

145. Salvage and Reinstall Rectangular Rapid Flashing Beacon (RRFB) System, SPV.0105.09.

A Description

This special provision describes the salvaging and reinstalling solar powered Rectangular Rapid Flashing Beacon (RRFB) System with Pedestrian Activation as described herein and as shown in the plans.

B Materials

B.1 Anticipated Salvaged Items

- 3 – Solar Panel Assemblies
- 4 – Light Bars
- 3 – Pedestrian Push Buttons
- 3 – 9"X12" R10-25 Signs

B.2 Hardware

Furnish necessary additional parts compatible with Carmanah model R920 Solar Rectangular Rapid Flashing Beacon to furnish a complete assembly. A complete system for an intersection will consist of one assembly for eastbound roadway, one assembly for westbound roadway, and one assembly in the median. Light bars and signing only on one side per assembly, facing oncoming traffic, except in the median where it will be two side for light bars and signing. One push button will be located on each side of the roadway. A push button will not be located in the median. Activation of one push button will activate the entire system at the intersection. Return unused push button to City of Manitowoc.

C Construction

Construct according to standard spec 637.3 and 658.3, manufacturer recommendations, and construction details.

D Measurement

The department will measure Salvage and Reinstall Rectangular Rapid Flashing Beacon (RRFB) System, as a single lump sum unit of work for each system 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	Salvage and Reinstall Rectangular Rapid Flashing Beacon (RRFB) System	LS

Payment is full compensation for salvaging, storing existing Rectangular Rapid Flashing Beacon (RRFB) system. For furnishing additional hardware and reinstalling the Rectangular Rapid Flashing Beacon (RRFB) system including wire and all necessary mounting hardware, and appurtenances; and for performing all excavation, compaction, proper disposal of surplus material and restoring the site of work.

Payment for traffic signal standards, pedestal bases, concrete bases, and signs will be with separate bid items.

146. Grading and Shaping Outfall Dissipator, Item SPV.0105.10.

A Description

This special provision describes excavating, grading, shaping, and compacting, as necessary to construct the outfall dissipator as the plans show.

B (Vacant)

C Construction

Dispose of all surplus and unsuitable material as specified in standard spec 205.3.12.

D Measurement

The department will measure Grading and Shaping Outfall Dissipator as a single complete 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.0105.10	Grading and Shaping Outfall Dissipator	LS

Payment is full compensation for all excavating, grading, shaping, and compacting.

The riprap and finishing items will be measured and paid for under other contract bid items.

147. Remove Traffic Signals, USH 10 & 11th Street, Item SPV.0105.30; Remove Traffic Signals, USH 10 & 8th Street, Item SPV.0105.31.

A Description

This special provision describes removing existing traffic signals at the intersections of USH 10 and 11th Street, and 8th 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

Notify the City of Manitowoc at 920-686-6517 (Mark DeZeeuw) at least five (5) working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

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. The contractor shall dispose of all traffic signal poles, cabinet, controller and other equipment removed from the intersection.

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.0105.30	Remove Traffic Signals, USH 10 & 11th Street	LS
SPV.0105.31	Remove Traffic Signals, USH 10 & 8th Street	LS

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material, for delivering the requested materials to the department, and incidentals necessary to complete the contract work.

148. Remove Loop Detector Wire and Lead-in Cable, USH 10 & 11th Street, Item SPV.0105.32; Remove Loop Detector Wire and Lead-in Cable, USH 10 & 8th Street, Item SPV.0105.33.

A Description

This special provision describes removing loop detector wire and lead-in cable at the intersections of USH 10 and 11th Street, and 8th Street and removing the loop detector wire and lead-in cable for loop detectors impacted by construction activity. Removal will be according to standard spec 204, as shown in the plans, and as hereinafter provided.

B (Vacant)

C Construction

Notify the City of Manitowoc at least three working days prior to the removal of the loop detector wire and lead-in cable.

Remove and dispose of detector lead-in cable including loop wire for abandoned loops off the right-of-way.

D Measurement

The department will measure Remove Loop Detector Wire and Lead-in Cable 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.0105.32	Remove Loop Detector Wire and Lead-in Cable, USH 10 & 11th Street	LS
SPV.0105.33	Remove Loop Detector Wire and Lead-in Cable, USH 10 & 8th Street	LS

Payment is full compensation for removing, scrapping, and disposing of material and incidentals necessary to complete the contract work.

149. Traffic Signal Cabinet and Controller Fully Actuated 8 Phase, USH 10 & 11th Street, Item SPV.0105.34; Traffic Signal Cabinet and Controller Fully Actuated 8 Phase, USH 10 & 8th Street, Item SPV.0105.35.

A Description

This specification describes furnishing and installing a fully equipped and operational NEMA TS2 Type 2 traffic signal control cabinet. The controller shall be the EPAC3108M52.

B General Requirements

B.1 General

Furnish and install equipment and assemble the cabinet conforming to the latest revision of NEMA Standards Publication TS 2-2003, *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 sixteen 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.

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 be a Size 'P' cabinet.

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.

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 an under-shelf drawer under the lower shelf. The drawer shall be approximately 20 inches wide and the full depth of the shelf. 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.

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 an incandescent lamp and socket in the cabinet to sufficiently illuminate the field terminals. Wire the lamp to a 15-amp ON/OFF toggle switch mounted on the rear cover of the police panel as specified in the Cabinet Switches section of this specification.

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 sixteen load switch sockets: eight phases of vehicular, four phases of pedestrian, and four phases of overlap operation; eight flash transfer relay sockets; one flasher socket; and two 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 lower 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 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 MMU input and output terminations on the terminal facility. Identify 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.

Identify all termination points by a unique number silk screened on the panel.

D.2.2 Intersection Lighting

Provide an intersection lighting control panel as described. The intersection lighting control panel shall consist of an aluminum panel 0.125 inches thick and approximately 5 inches by 10 inches. Determine the actual panel size by the cabinet's mounting rail placement. Attach to the panel a 2 pole-30 amp contactor-120vac coil (Square D #8910DPA32V02 or equal), and a heavy duty six position terminal block (Marathon DJ1606 or equal). Use wire sizes 10AWG for power and load wiring, and 16AWG for control wires. Wire the terminal strip as follows:

1. Control coil
2. L1 in
3. L2 in
4. Neutral in and control coil
5. L1 out
6. L2 out

Protect each output by a MOV (V150LA20A) wired between the output and neutral. a photo control (Intermatic #K4021C or equal). Mount the photo control just above the cabinet door and approximately 12 inches from the right side of the cabinet. Wire the photo control to a 3 position terminal switch using 16AWG wire color coded to match the photo control wiring connected to the intersection lighting control 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 MMU 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 MMU.

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)

<u>Position</u>	<u>Switch Label</u>	<u>Function</u>
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:

<u>Auto</u>		<u>Hand</u>
Flash:	Signals Flash	Signals Flash
Normal:	Signals Normal	Signals Advance by use of hand control

Provide manual detector switches. Provide a minimum of 16 vehicle detector switches, and four pedestrian detector switches. The switches shall be spring loaded and automatically return to the center position. Wire the vehicle detector switches to detector BIU slot 1. Wire the pedestrian switches to the T&F BIU slot 1. The switches shall operate as follows:

<u>Position</u>	<u>Function</u>
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, MMU, 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.

E.2 Bus Bar

Provide a minimum 20-position neutral bus bar capable of connecting three #12 AWG wires per position.

E.3 Circuit Breakers

House in the power panel the following vertically mounted, single pole, 120 volts AC, 60 Hertz, circuit breakers, with the ON position being up:

1. One 30-amp signal breaker. This breaker shall supply power for all cabinet functions not powered through one of the other breakers or fuses listed below. Streetlights will be powered from outside the cabinet in the meter breaker pedestal. This breaker shall feed a signal bus supplied through a solid state bus relay and a radio interference line filter. The bus relay, in all cases, shall be a solid state contactor and shall not be jack mounted. Breakers shall be thermal magnetic type, UL or NRTL listed, with a minimum of 22,000 amp interrupting capacity.
2. One 15-amp auxiliary breaker. This breaker shall supply power to the fan and heater.
3. One 10-amp breaker. This breaker shall supply power for control equipment: controller, MMU, and cabinet power supply.
4. One 20-amp circuit breaker for future use.

Power the cabinet light through the GFI fuse, not a circuit breaker.

E.4 Radio Interference Suppressor

Equip each control cabinet with a single radio interference suppressor (RIS) of sufficient ampere rating to handle the load requirements. Install the RIS at the input power point. The RIS shall minimize interference in both the broadcast and the aircraft frequencies, and shall provide a maximum attenuation of 50 DB over a frequency range from 200 KHZ to 75 MHZ, when used in connection with normal installations. The RIS shall be hermetically sealed in a substantial metal case filled with a suitable insulating compound. The terminals shall be nickel-plated brass studs of sufficient external length to provide space to connect two #8 AWG wires and shall be so mounted that they cannot be turned in the case. Ungrounded terminals shall be properly insulated from each other, and shall maintain a surface leakage distance of not less than 6.35 mm between any exposed current conductor and any other metallic parts. The terminals shall have an insulation factor of 100-200 megohms dependent upon external conditions. The RIS shall be rated at minimum 50 amperes. Design the RIS for operation on 115 VAC +/- 10%, 60HZ, single-phase circuits, and to meet the standards of UL or a NRTL and Radio Manufacturer's Association.

E.5 Bus Relay

Provide a normally-open, 60 amp, solid-state relay.

E.6 Surge Protector

Install a plug-in type EDCO SHA-1250, or Atlantic/Pacific approved equal, surge protector across the load terminal of the 10-amp circuit breaker. Install a General Electric Varistor, catalog #V130PA20A, at the load terminals of the circuit breaker from the hot line to the grounded current carrying neutral conductor.

E.7 Power receptacles

Mount a 120 VAC 20 amp, NEMA 5-20R GFCI duplex convenience outlet at each of these two locations:

1. On the interior right side wall above the power panel. The outlet shall be fully operational and fuse protected.
2. Near the power panel where it will not interfere with power panel maintenance. This outlet is to be wired by field installation personnel.

E.8 Suppressors and RC Network

Provide a suppressor for each 120 VAC circuit that serves an inductive device, such as a fan motor or a mechanical relay, to protect the controller's solid state devices from excessive voltage surges. Such suppressors shall be in addition to the surge protector at the input power point. Wire one RC network in parallel with each inductive device.

F Auxiliary Devices

F.1 Load Switches

Provide 16 solid state load switches conforming to the requirements of section 6.2 of the NEMA TS2 Standard.

F.2 Flashers

Provide one solid state flasher conforming to the requirements of section 6.3 of the NEMA TS2 Standard.

F.3 Flash Transfer Relays

Provide four flash transfer relays conforming to the requirements of section 6.4 of the NEMA TS2 Standard.

F.4 Inductive Loop Detector Units

Provide the quantity of inductive loop detector units required by the plans and conforming to the requirements of section 6.5 of the NEMA TS2 Standard for 2-channel, rack mount detector units, type C. Install all required units in one detector rack.

F.5 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 Malfunction Management Unit (MMU)

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

1. Detecting simultaneously active inputs of Green (Walk), Yellow, or Red (Don't Walk) on the same channel.
2. Determining if the field signal input states detected as active or inactive by the MMU correspond with the data provided by the Controller Unit.
3. Monitoring an optional external watchdog output from a Controller Unit or other external cabinet device.
4. Monitoring an intersection with up to four approaches using the Flashing Yellow Arrow (for protected/permissive left and right turn movements).
5. Event logging for the following; AC Line log, Prior/Previous Faults log, and Monitor Reset Log. All log entries shall include a date and time stamp.

6. All monitor functions shall be capable of being programmed through the front panel, without the need for computers or special programs cards.
7. A built-in Diagnostic Wizard shall be provided that displays detailed diagnostic information regarding the fault being analyzed. This mode shall provide a concise view of the signal states involved in the fault, pinpoint faulty signal inputs, and provide guidance on how the technician should isolate the cause of the malfunction.

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

I Traffic Signal Controller

The traffic signal controller provided shall be a Siemens M50 series model EPAC3108M52, 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:

1. All phase sequences used by the city, including flashing yellow for both left and right turns.
2. Communications, closed loop, and on-street control software designed for use with the provided controller and provided under separate bid items.
3. Both the controller and the MMU.
4. City PC laptop and desktop computers with Windows XP and Windows 7 operating systems.
5. Backwards compatibility with older traffic signal controllers and software produced by the controller manufacturer and installed in city traffic signals since 2000.
6. 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.

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:

1. The status of each signal phase on
2. The interval status
3. Phase termination information
4. 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:

1. Phases timing concurrently shall terminate simultaneously if both have a gap-out due to excessive time between actuations.
2. Phases timing concurrently shall terminate simultaneously if both have a maximum timeout.
3. Phases timing concurrently shall terminate simultaneously if one has a gap-out and the other has a maximum time-out.
4. 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:

1. Yellow clearance - 3.0 seconds
2. Standard minimum walk - 4.0 seconds
3. Emergency vehicle preemption minimum walk = 0.0 seconds
4. 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:

1. Vehicle/Pedestrian Detectors (per phase)
2. Pedestrian Omit (per phase)
3. Phase Omit (per phase)
4. Hold (per phase)
5. Omit Red Clearance (per ring)
6. Internal Maximum Inhibit (per ring)
7. Maximum II (per ring)
8. Red Rest (per ring)
9. Stop Timing (per ring)
10. Force-Off (per ring)
11. Select Minimum Recall (per controller)
12. Manual Control (per controller)
13. Semi-Modes (per controller)
14. 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:

1. Table of contents
2. Operating procedure
3. Step-by-step maintenance and trouble-shooting information for the entire assembly
4. Schematic diagrams
5. Pictorial diagrams of parts locations
6. Itemized parts lists with parts numbers
7. Theory of operation
8. 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 vendor. 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.

When the city exercises its right to test a cabinet in the city's shop as described in the Acceptance Testing section of this specification, deliver the cabinet to the location specified by the city's engineer. When the testing is complete, pick up the cabinet from the shop within three business days of notification.

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 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 one year 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. Delivery of a cabinet for testing does not constitute acceptance of the cabinet. Shipping costs, both to the factory or an Authorized Repair Depot, and return, shall be paid by the contractor during the warranty period.

Turn over to the city 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.

The warranty shall provide for full repair or replacement, as determined by the city, of the failed item or cabinet system, including removal and installation, at no cost to the city.

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.

O Measurement

The department will measure Traffic Signal Cabinet and Controller Fully Actuated 8 Phase (location) as a complete lump sum unit of work, acceptably completed.

P Payment.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.105.34	Traffic Signal Cabinet and Controller Fully Actuated 8 Phase, USH 10 & 11th Street	LS
SPV.105.35	Traffic Signal Cabinet and Controller Fully Actuated 8 Phase, USH 10 & 8th Street	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.

- 150. Water Main Trench Backfill Testing Project 1500-37-75, Item SPV.0105.40;
Water Main Trench Backfill Testing Project 4570-12-72, Item SPV.0105.41;
Sanitary Sewer Trench Backfill Testing Project 1500-37-75, Item SPV.0105.60;
Sanitary Sewer Trench Backfill Testing Project 4570-12-72, Item SPV.0105.61.**

A Description

This special provision describes sampling and testing of backfill used for water main and sanitary sewer work, including services.

B (Vacant)

C Construction

Contractor shall arrange and pay for soil sampling and testing by a qualified testing agency, acceptable to Manitowoc Public Utilities and City of Manitowoc and independent of contractor. Test soil materials for suitability for intended purpose using standard, recognized procedures. Determine mechanical analysis, liquid and plastic limit, and moisture-density curve (ASTM D698) for each type of soil encountered. Perform at least two field density tests in random compacted backfill layers for every 400 linear feet of trench, including two laterals within the 400 linear foot area, or fraction thereof, under roadways and walks.

Density tests shall be at randomly selected locations, or in locations as selected by engineer, and according to ASTM D1556 (sand cone method) or ASTM D2922 (nuclear method). Where field testing indicates that soils are below specified density, provide additional compaction and testing at no additional cost to Manitowoc Public Utilities or the City of Manitowoc. Submit reports for the laboratory tests and field density tests specified above to engineer.

D Measurement

The department will measure (type) Trench Backfill Testing (project) as a single lump sum unit of work for the testing, 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.0105.40	Water Main Trench Backfill Testing Project 1500-37-75	LS
SPV.0105.41	Water Main Trench Backfill Testing Project 4570-12-72	LS
SPV.0105.60	Sanitary Sewer Trench Backfill Testing 1500-37-75	LS
SPV.0105.61	Sanitary Sewer Trench Backfill Testing 4570-12-72	LS

Payment is full compensation for required laboratory and field testing and reporting of test results.

151. Abandoning Water Main and Appurtenances Project 1500-37-75, Item SPV.0105.42; Abandoning Water Main and Appurtenances Project 4570-12-72, Item SPV.0105.43.

A Description

This special provision describes the abandonment of all existing water main and appurtenances replaced by new water main and appurtenances (where abandonment or removal is not covered specifically under other items of work) as shown on the plans and as hereinafter provided.

B Materials

For fittings used in abandonment, conform to the requirements of materials described in the "Water Main" article.

C Construction

Cap existing water mains to be abandoned with mechanical joint caps or plug with a minimum of 1 foot of concrete.

D Measurement

The department will measure Abandoning Existing Water Main and Appurtenances as a single lump sum unit of work for the abandonment, 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.0105.42	Abandoning Water Main and Appurtenances Project 1500-37-75	LS
SPV.0105.43	Abandoning Water Main and Appurtenances Project 4570-12-72	LS

Payment is full compensation for abandonment of water main and appurtenances not specifically covered under other items of work and shall include all excavations, dewatering, fittings, concrete, and backfilling and compaction of excavation.

152. Trench Insulation 4-Inch, Item SPV.0165.40.

A Description

This special provision describes furnishing and installing trench insulation at locations indicated on the plans and as hereinafter provided.

B Materials

Furnish extruded closed-cell polystyrene board complying with ASTM C578, Type IV, minimum 25 psi compressive strength, minimum thermal resistance (R-value at 75 deg F) of 5.0 per 1-in. thickness.

C Construction

Install insulation according to manufacturer's instructions for the particular conditions of installation. If printed instructions do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with work.

Provide insulation thickness, width, and burial depth as designated.

Extend insulation full thickness over entire area specified. Where two or more layers of insulation are used, place alternating layers to overlap joints of previous layer.

D Measurement

The department will measure Trench Insulation 4-Inch 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.0165.40	Trench Insulation 4-Inch	SF

Payment is full compensation for furnishing and installing insulation, including (if required) additional excavating, backfilling, and compacting not already part of piping installation work.

153. Salvaging and Replacing Concrete Riprap, Item SPV.0180.01.

A Description

This special provision describes removing, stockpiling and reinstalling concrete riprap as shown on the plans, directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction

Remove existing riprap to the extent necessary for the installation of the storm sewer outfall, stockpiling in an out of way location.

After installation of the storm sewer pipe is completed replace riprap to its original location. Blend in the replaced riprap with the existing.

D Measurement

The department will measure Salvaging and Replacing Concrete Riprap in area 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.0180.01	Salvaging and Replacing Concrete Riprap	SY

Payment is full compensation for removing, stockpiling, and replacing the concrete riprap.

154. Shredded Hardwood Bulk Mulch, Item SPV.0180.02.

A Description

Furnish and install mulch at the locations shown on the plans and according to the requirements of standard spec 632, the plans, and as hereinafter provided.

B Materials

Provide Shredded Hardwood Bark Mulch, as shown on plan and according to standard spec 632.2.6.

Shredded Hardwood Bark Mulch shall be finely shredded hardwood bark mulch and shall be the product of a mechanical chipper, hammermill or tub grinder. The material shall be fibrous and uniformly dark brown in color, free of large wood chunks, and shall be substantially free of mold, dirt, sawdust, and foreign material. No portion of the material shall be in an advanced state of decomposition. The material shall not contain chipped up manufactured boards or chemically treated wood, including but not limited to wafer board, particle board, and chromated copper arsenate (CCA) or penta-treated wood. The material shall contain no bark of the black walnut tree. The material, when air dried, shall all pass a 4-inch screen and no more than 20 percent by mass of the material shall pass a 0.10-inch sieve. Unattached bark or greenleaf composition, either singly or combined, shall not exceed 20 percent each by mass. The maximum length of individual pieces shall not exceed 4-inches.

C Construction

Install mulch according to standard spec 632.3.9 to a depth of 3 inches.

Place the hardwood bark mulch in such a manner as to not damage plants already in place.

D Measurement

The department will measure Shredded Hardwood Bark Mulch 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.0180.02	Shredded Hardwood Bark Mulch	SY

Payment is full compensation for furnishing and installing all materials.

(NER11-0208)

155. Imported Water Main Trench Backfill, Item SPV. 0195.40.

A Description

This work will consist of furnishing and installing backfill for water main construction when native, excavated trench material is unsuitable for use as trench backfill as determined by engineer.

B Materials

Any excavated material from the water main or water lateral trenches that is considered unsuitable by the engineer, will be removed from the site. Replace unsuitable material with an imported granular backfill material conforming to standard spec 209.2.

C Construction

Conform to standard spec 209.3 and as specified below. During excavation for water main, separate acceptable excavated material for use as backfill, as directed by the engineer, incidental to the utility construction item. Excavate, load, and dispose of unacceptable trench excavation materials.

D Measurement

The department will measure Imported Water Main Trench Backfill, by the ton, acceptably completed. The contractor will provide the engineer with weight slips for all trench backfill placed onsite on a daily basis. There will be no payment for any missing or late weight slips.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.40.	Imported Water Main Trench Backfill	Ton

Payment is full compensation for excavating and disposing of unacceptable trench excavation material related to water main construction; for furnishing, placing, and compaction of granular backfill material.

156. Imported Sanitary Sewer Trench Backfill, Item SPV. 0195.60.

A Description

This work will consist of furnishing and installing backfill for sanitary sewer construction when native, excavated trench material is unsuitable for use as trench backfill as determined by engineer.

B Materials

Any excavated material from the sewer trenches that are considered unsuitable by the engineer, will be removed from the site by the contractor. The contractor will replace this unsuitable material with an imported granular backfill material conforming to the gradation requirements found in Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition Section 8.43.4 or pit run material conforming to the gradation requirements found in standard spec 313, EXCEPT that the maximum size of individual stone pieces will not exceed six inches. If the excavated material from the sewer trenches is suitable material, the contractor can use this at no pay.

C Construction

Conform to standard spec 209.3 and as specified below. During excavation for sanitary sewer, separate acceptable excavated material for use as backfill, as directed by the engineer, incidental to the utility construction item. Excavate, load, and dispose of unacceptable trench excavation materials.

Backfill around all new and reconstruct sanitary manholes with imported trench backfill material as needed. Backfill around all mains that fall under the concrete pavement with imported trench backfill material as needed. Imported backfill material is not needed for mains under the islands unless the excavated material is unsuitable. If additional excavation due to poor material under the base of the manhole is needed for stabilization, the excavation and importation of new material is paid for in the Trench Stabilization bid item.

The city reserves the right to require the contractor to water jet around any manhole structure if it appears that compaction is insufficient. If the city elects to have the contractor water jet, the costs for water jetting will be included in the cost of the manholes.

D Measurement

The department will measure Imported Sanitary Trench Backfill, by the ton, acceptably completed. The contractor will provide the engineer with weight slips for all trench backfill placed onsite on a daily basis. There will be no payment for any missing or late weight slips.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.60.	Imported Sanitary Sewer Trench Backfill	Ton

Payment is full compensation for excavating and disposing of unacceptable trench excavation material related to sanitary construction; for furnishing, placing, and compaction of granular backfill material.

157. Sanitary Sewer Trench Stabilization, Item SPV.0195.61.

A Description

This work will consist of furnishing and installing stabilization for sanitary sewer construction where needed as directed by the engineer and plan details.

B Materials

Replace unsuitable material with 1 1/4-Inch or 3-Inch crushed stone chips or breaker run.

C Construction

After excavating to the elevation of the bottom of the manhole subgrade, excavate down 1.5 feet. Fill this excavation with trench stabilization material until level with the initial subgrade excavation.

After excavating to the elevation of the bottom of the pipe subgrade, excavate down 1.5 feet. Fill this excavation with trench stabilization material until level with the initial subgrade excavation.

Conform to standard spec 209.3 and as specified below. During excavation for sanitary sewer, separate acceptable excavated material for use as backfill, as directed by the engineer, incidental to the utility construction item. Excavate, load, and dispose of unacceptable trench excavation materials.

D Measurement

The department will measure Sanitary Sewer Trench Stabilization, by the ton, acceptably completed. The contractor shall provide the engineer with weight slips for all trench backfill placed onsite on a daily basis. There will be no payment for any missing or late weight slips.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.61	Sanitary Sewer Trench Stabilization	Ton

Payment is full compensation for excavating and disposing of unacceptable trench excavation material related to sanitary construction; for furnishing, placing, and compaction of granular backfill material.

158. Sanitary Manhole 4-Foot, Item SPV.0200.60.

A Description

This special provision describes furnishing and installing sanitary sewer manholes as shown on the plans, and as hereinafter provided.

B Materials

Provide precast reinforced concrete sections with eccentric cone sections. Conform to ASTM C478. Provide steps 16 inch on center. Join manhole sections with butyl rubber sealant complying with ASTM C990.

Provide butyl rubber sealant complying with ASTM C990.

Provide boot type flexible connectors with stainless steel band seals complying with ASTM C923 for all connecting pipes. When pipe configuration precludes the use of factory fabricated connections, use water stops and hydraulic cement to waterproof the connection.

Build the manhole to the established grade with a minimum of 4 inches and a maximum of 10 inches of pre-cast concrete adjusting rings. Submit sanitary manhole shop drawings to the engineer. Do not begin fabrication of sanitary manholes until shop drawings have been reviewed by the engineer.

C Construction

Excavate a minimum area of 5 feet from the outside walls of the manhole structure to install manhole. Level base of excavation to provide a firm foundation for the precast bottom. Following placement and connection to new and existing pipes, construct interior bottom of manholes of concrete fillets poured in place in the field. Make flow lines smooth with uniform curves to promote flow through the manhole. Form benches by continuing the width of the connecting pipes from mid-line to top of pipe, then extending at a ½ inch per foot pitch to the manhole wall. Plug all lift holes with mortar from the outside prior to backfilling. Make manholes watertight, with no visible signs of leakage at the time of final inspection.

Place butyl rubber sealant in 3-1/2 inch widths between the manhole sections. In addition, place butyl rubber sealant between cone section and adjusting ring, between any additional adjusting rings required to bring the casting to finished grade, and between the top adjusting ring and casting. In placing the sealant material, take care to seal the entire circumference of the ring to preclude infiltration of water. Take care during subsequent construction activities to not disturb the water tight integrity of the manhole casting adjustment. Reset any disturbed covers according to these provisions. Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9.

Backfill with excavated material, unless directed otherwise by the engineer. Use Imported Sanitary Sewer Trench Backfill when excavated material is unsuitable for backfill, as directed by the engineer. Place material according to standard spec 611.3.1.

D Measurement

The department will measure Sanitary Manhole 4-Foot by the vertical foot in place, as measured from the invert to finished rim minus the height of the casting.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.60	Sanitary Manhole 4-Foot	VF

Payment is full compensation for all materials, including manhole sections, flexible connectors, joint material, concrete, granular backfill, and bedding stone; for all excavation, dewatering, sewage pumping, backfilling, and compaction.

When replacing manholes, any pipe and connectors required to make the reconnection to the existing sewer main is incidental to the manhole installation.

159. Reconstruct Sanitary Manhole, Item SPV.0200.61.

A Description

This special provision describes reconstructing existing manholes as shown and described on the plans. Reconstruct sanitary sewer manholes according to the plans and as hereinafter provided.

B Materials

Furnish materials conforming to the pertinent requirements of standard spec 611.2.

Provide 4-foot diameter manhole sections and eccentric cone sections constructed of precast reinforced concrete. Conform to ASTM C478. Provide steps 16 inch on center.

Provide butyl rubber sealant complying with ASTM C990.

Build the manhole to the established grade with a minimum of 4 inches and a maximum of 10 inches of pre-cast concrete adjusting rings. Submit sanitary manhole shop drawings to the engineer. Do not begin fabrication of sanitary manholes until shop drawings have been reviewed by the engineer.

C Construction

Reconstruct existing manholes to the required lines and elevations as shown on the plans by either using existing pre-cast cone and manhole sections or installing new pre-cast cone and manhole sections as required to achieve the finished surface elevation. It is the contractor's responsibility to determine what parts can be salvaged or what new materials may have to be furnished. Salvaged parts will need approval from the engineer prior to reusing them on the manhole. Salvage the existing casting and replace it with a new casting.

Place butyl rubber sealant in 3-1/2 inch widths between the manhole sections. In addition, place butyl rubber sealant between cone section and adjusting ring, between any additional adjusting rings required to bring the casting to finished grade, and between the top adjusting ring and casting. In placing the sealant material, take care to seal the entire circumference of the ring to preclude infiltration of water. Take care during subsequent construction activities to not disturb the water tight integrity of the manhole casting adjustment. Reset any disturbed covers according to these provisions. Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9.

Backfill with excavated material, unless directed otherwise by the engineer. Use Imported Trench Backfill when excavated material is unsuitable for backfill, as directed by the engineer. Place material according to standard spec 611.3.1.

Make final rim adjustments using reinforced concrete adjustment rings or other method approved by the engineer.

D Measurement

The department will measure Reconstruct Sanitary Manhole as vertical foot in place, as measured from the starting elevation point of reconstruction to finished rim minus the height of the casting.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.61	Reconstruct Sanitary Sewer Manhole	VF

Payment is full compensation for all materials, including cone and manhole sections, joint material, concrete and granular backfill; for all excavation, dewatering, backfilling and compaction.

The adjusting rings required will be included in Reconstruct Sanitary Manhole and shall be paid as VF of manhole.

160. Drop Manhole, Item SPV.0200.62.

A Description

This special provision describes furnishing and installing external drop manholes as shown on the plans, and as hereinafter provided.

B Materials

Drop assembly will consist of a tee connecting to inflowing sewer, a drop pipe of same diameter as inflowing sewer, and a 90 degree bend at bottom, all encased in concrete and resting on manhole base.

Provide boot type flexible connectors with stainless steel band seals complying with ASTM C923 for all connecting pipes. When pipe configuration precludes the use of factory fabricated connections, use water stops and hydraulic cement to waterproof the connection.

C Construction

Install manhole drops where indicated, constructed according to drawing details.

Backfill with excavated material, unless directed otherwise by the engineer. Use Imported Sanitary Sewer Trench Backfill when excavated material is unsuitable for backfill, as directed by the engineer. Place material according to standard spec 611.3.1.

D Measurement

The department will measure Drop Manhole by the vertical foot in place, acceptably completed, as measured from incoming flow to bottom of drop.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.62	Drop Manhole	VF

Payment is full compensation for all materials and work including pipe and connectors necessary for the drop.

**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 16 (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 8 (number) TrANS Apprentice(s) be utilized on this contract.

- 3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.
- 4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.
- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

I. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE [DBE] PROGRAM IMPLEMENTATION

1. Description

- a. The federal DBE program requirements outlined in the Code of Federal Regulations at 49 CFR Part 26 apply to this Wisconsin Department of Transportation contract. WisDOT is a recipient of federal funds and this contract includes federal funds. United States Department of Transportation Federal DBE Program requires the following provisions:
 - (1) Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE regulations will be considered a material breach of contract. This is non-negotiable. If a contractor fails to carry out the DBE program and Title VI nondiscrimination requirements of its contracts, the following sanctions will be assessed depending upon the facts, reasoning, severity and remedial efforts of the contractor: termination of contract, withholding payment, assessment of monetary sanctions, assessment of liquidated damages and/or suspension/debarment proceedings that may result in the disqualification of the contractor from bidding for a designated period of time.
 - (2) The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains the federal fund recipient's [DOT] written consent. Unless [WisDOT] consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.
- b. The Wisconsin Department of Transportation [WisDOT] is committed to the compliant administration of the DBE Program. Each WisDOT Secretary affirms this commitment with his/her signed assurance.
<https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/policy-statement.pdf>
 - (1) The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
 - i. Produce accurate and complete quotes.
 - ii. Understand highway plans applicable to their work.
 - iii. Understand specifications and contract requirements applicable to their work.
 - iv. Understand contracting reporting requirements.
 - (2) Wisconsin DOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned, specified contract DBE goal by subcontracting work to a DBE or by procuring services or materials from a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.
 - (3) For more comprehensive information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at:
<https://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

2. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
- b. **DBE:** A small business certified as disadvantaged business enterprise (DBE) under the federal DBE program and included on the Wisconsin UCP DBE Directory deemed ready, willing and able.
- c. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
- d. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
- e. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
- f. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually commits to DBE participation at or above the bid percentage, or certifies that they have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. The bid percentage should demonstrate the efforts of the prime contractor prior to bid. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

4. WisDOT Interpretation of Federal DBE Program Provision

Prime contractors must utilize the specific DBEs listed to perform the work and/or supply the materials for which each is listed on the Commitment to Subcontract to DBE Form [DT1506] and approved by WisDOT's DBE office to execute its contract. The approved Commitment to Subcontract to DBE Form [DT1506] becomes a contract document/record.

a. Department's DBE Evaluation Process

WisDOT evaluates DBE using the Commitment to Subcontract to DBE, payments to subcontractors and contract documentation. The prime contractor shall list the specific DBE certified firms and items of work s/he intends to use toward the fulfillment of the assigned DBE contract goal. The prime contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved Form DT1506.

b. Documentation Submittal

The contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506]. Effective January 1, 2017, the contractor will be required to submit the documentation within 5 business days after bid opening. All necessary supporting documentation including Attachment 'A' forms and/or Good Faith Efforts Form

[DT1202] must be submitted no later than 2 business days from contractor's initial submission of the DT 1506. The contractor must provide a signed Attachment 'A' form to the DBE office within the time limit in order to receive authorization for contract execution; the DBE office reserves the right accept alternate documentation in lieu of the signed form in extenuating circumstances. Documentation must be submitted to the DBE Office by email at DBE_Alert@dot.wi.gov (DBE_Alert@dot.wi.gov) or by postal mail ATTN: DBE Office, PO Box 7965, Madison, WI 53707-7965.

(1) **Bidder Meets DBE Goal**

If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage calculation. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

(2) **Bidder Does Not Meet DBE Goal**

- i. If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Efforts Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith efforts submission.
- ii. The department will evaluate the bidder's good faith effort request and notify the bidder of one of the following:
 - (a) If the department grants a good faith efforts, the bid is eligible for contract execution with respect to DBE commitment.
 - (b) If the department rejects the good faith efforts request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith efforts request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

c. **Bidder Fails to Submit Documentation**

If the contractor fails to furnish the Commitment to Subcontract to DBE Form [DT1506] within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

5. Department's Criteria for Good Faith Effort

Appendix A of 49 CFR Part 26, is the guiding regulation concerning good faith efforts. However, the federal regulations do not explicitly define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own practices to create a process for making a determination of adequate good faith. WisDOT evaluates good faith on a contract basis just as each contract award is evaluated individually.

The department will only approve a contractor's good faith efforts if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith efforts will be granted. The bidder must demonstrate, on the DT1202 that they have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

- a. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

b. Prime Contractors should:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT- approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
- (2) Prime contractors may request assistance with DBE outreach and follow-up by contacting the department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Requesting assistance with outreach is not a decisive factor in the review Good faith effort evaluation. Phone numbers are 414-438-4584 and/or 414-659-0487; Fax: 414-438-5392; E-mail: DOTDBESupportServices@dot.wi.gov.
- (3) Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
 - i. Solicit quotes from certified DBE firms who match 'possible items to subcontract' using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which you are seeking quotes to DOTDBESupportServices@dot.wi.gov.
 - ii. SBN is the preferred outreach tool. <https://www.bidx.com/wi/main>. Other acceptable means include postal mail, email, fax, phone call.
 - (a) Primes must ask DBE firms for a response in their solicitations. See *Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
 - (b) Solicit quotes at least 10 calendar days prior to the letting date, at least two Fridays before the letting, to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
 - (c) Second solicitation should take place within 5 calendar days. Email and SBN are the preferred delivery of the follow-up solicitation.
 - iii. Upon request, provide interested DBE firms with adequate information about plans, specifications and the requirements of the contract by letter, information session, email, phone call and/or referral.
 - iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit or insurance if requested.
 - v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
 - (a) Email to all prospective DBE firms in relevant work areas.
 - (b) Phone call log to DBE firms who express interest via written response or call.
 - (c) Fax/letter confirmation
 - (d) Signed copy of Bid Express SBN Record of Subcontractor Outreach Effort.

c. Evaluate DBE quotes Documentation is critical if a prime does not utilize the DBE firm's quote for any reason.

- (1) Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, **a discussion with the DBE firm** regarding its capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area and/or NAICS code listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
- (2) In striving to meet an assigned DBE contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.

- (3) **Special Circumstance** - Evaluation of DBE quotes with tied bid items. "Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as 'all or none' quote to the prime." When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms' quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.
- i. Compare bid items common to both quotes, noting the reasonableness in the price comparison.
 - ii. Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.
- d. Immediately after notification of contract award, the prime submits all **'Commitment to Subcontract'** forms to the DBE Office. Prime contractor has 5 days to submit the completed form for the DBE firms it intends to use on the contract for DBE credit. If the goal is not met in full, the prime contractor must provide the following information along with WisDOT form DT1202: Certificate of Good Faith Efforts.
- (1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact.
 - (2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
 - (3) Photocopies or electronic copies of all written solicitations to DBE's. A printed copy of SBN solicitation is acceptable.
 - (4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
 - (5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.

The prime contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved Commitment to Subcontract to DBE Form [DT1506]. If the prime contractor utilizes another contractor, including the use of its own workforce, to perform the work assigned to a DBE on the approved DT1506, the prime contractor will not be entitled to payment for that work. Any changes to DBE after the approval of the DT1506 must be reviewed and approved by the DBE office prior to the change.

6. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE, a prime contractor and the regular dealer of materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE in cases where the prime has submitted the DBE and material for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
 - (1) Request should be made when the DBE Commitment form or Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
 - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
 - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
 - (4) The joint check for supplies must be strictly for the cost of supplies.
- b. DBE subcontractor is responsible to furnish and/or install the material/work item. The DBE subcontractor shall not be an 'extra participant' in the transaction; the DBE's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following.
 - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price and delivery of materials;
 - (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor,
 - (1) The prime agrees to furnish the check used for the payment of materials/supplies under the contract.
 - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractors negotiated unit price.

7. Bidder's Appeal Process

- a. A bidder can appeal the department's decision to deny the bidder's good faith effort submission. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so requested. Failure to appeal within 7 calendar days after receiving the department's written denial notice of a good faith effort evaluation constitutes a forfeiture of the bidder's right of appeal. A contract cannot be executed without documentation that the DBE provisions have been fulfilled.
- b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 5 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

8. Department's Criteria for DBE Participation

Directory of DBE firms

- a. The only resource for DBE certified firms certified in the state of Wisconsin is the Wisconsin Unified Certification Program [UCP] DBE List. Wisconsin Department of Transportation maintains a current list of certified DBE firms titled Wisconsin UCP DBE Directory on the website at:
<https://wisconsin.gov/Documents/doing-business/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE office is also available to assist at 414-438-4583 or 608-267-3849.

9. Counting DBE Participation

Assessing DBE Work

- a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:
- b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.
- c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.
- d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.
- e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.
- f. It is the prime contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE certified firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.
- g. It is the prime contractor's responsibility to assess the DBE firm's ability to perform the work for which s/he is committing/contracting the DBE to do. Note that the department encourages the prime contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.

10. Commercially Useful Function

- a. Commercially useful function is evaluated after the contract has been executed, while the DBE certified firm is performing its work items. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved.
- b. The department uses Form DT1011: DBE Commercially Useful Function Review and Certification to evaluate whether the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- c. A DBE is performing a commercially useful function if the following conditions are met:
 - (1) For contract work, the DBE is responsible for executing a distinct portion of the contract work and it is carrying out its responsibilities by actually performing, managing, and supervising that work.
 - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

11. Credit Evaluation for Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at <https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

12. Credit Evaluation for Manufacturers, Suppliers, Brokers

The department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The department will count the material and supplies that a DBE provides under the contract for DBE credit based on whether the DBE is a manufacturer, supplier or broker. Generally, DBE crediting measures and evaluates the DBE owner's role, responsibility and contribution to the transaction: maximum DBE credit when the DBE manufactures materials or supplies; DBE credit decreases when the DBE solely supplies material and minimal credit is allotted when the DBE's role is administrative or transactional.

It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

a. Manufacturers

- (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, count **100%** percent of the cost of the materials or supplies toward DBE goals.

b. Regular Dealers of Material and/or Supplies

- (1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
- (2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
- (3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
 - i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
 - ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.

c. Brokers, Transaction Expeditors, Packagers, Manufacturers Representatives

- (1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit; however, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives or other persons who arrange or expedite transactions.
- (2) Brokerage fees have historically been calculated as **10%** of the purchase amount.
- (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site.
- (4) The evaluation will review the contract need for the item/service, review the sub-contract or invoice for the item/service, compare the fees customarily allowed for similar services to determine whether they are reasonable.

When DBE suppliers are contracted, additional documentation must accompany the DT1506 and Attachment 'A' forms. An invoice or bill-of-sale that includes the company names of the bidder and the DBE supplier and documentation of the calculations used as the basis for the purchase agreement, subcontract or invoice.

WisDOT recognizes that the amount on the Attachment 'A' form may be more or less than the amount on the invoice. Please respond to the following questions and submit with your DBE Commitment Form.

1. What is the product or material?
2. Is this item in the prime's inventory or was the item purchased when contract was awarded?
3. Which contract line items were referenced to develop this quote?
4. What is the amount of material or product used on the project?

13. Credit Evaluation for DBE Primes

Wisconsin DOT calculates DBE credit based on the amount and type of work performed by DBE certified firms. If the prime contractor is a DBE certified firm, the department will only count the work that DBE prime contractor performs with its own forces for DBE credit. We will also calculate DBE credit for the work performed by any other DBE certified subcontractor, DBE certified supplier, DBE certified manufacturer on that contract in that DBE's approved work areas/NAICS code. Crediting for manufacturers and suppliers is calculated consistent with paragraph 12 of this document and 49 CFR Part 26.

14. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces for DBE credit.

15. Mentor Protégé

- a. If a DBE performs as a participant in a mentor protégé agreement, the department will count for credit the portion of the work performed by the DBE protégé firm.
- b. DBE credit will be evaluated and confirmed by the DBE Office for any contracts on which the mentor protégé team identifies itself to the DBE Office as a current participant of the Mentor Protégé Program.
- c. Refer to WisDOT's Mentor Protégé guidelines for guidance on the number of contracts and amount of DBE credit that can be counted on any WisDOT project.

16. DBE Replacement or Termination

Contractual Requirement

The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains written consent from the Department's DBE Office. If the Department does not provide consent to replace or terminate a DBE firm, the prime contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.

Contractor Considerations

- a. A prime contractor cannot terminate and/or replace a DBE subcontractor listed on the approved Commitment to Subcontract to DBE Form [DT1506] without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

- b. If a prime contractor feels it is necessary to replace or terminate a DBE firm that has been approved for DBE credit toward its contract, s/he will be required to provide reasons and documentation to support why the prime cannot fulfill the contractual commitment that it made to the Department regarding the DBE utilization.
- c. Prime contractor is required to make affirmative efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE that was terminated, to the extent needed to meet the assigned DBE contract goal.
- d. In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason or is terminated from a contract, the prime contractor is expected to make affirmative efforts to maintain its commitment to the assigned DBE goal.
- e. The DBE firm should communicate with the prime contractor regarding its schedule and capacity in the context of the contract. If the DBE anticipates that it cannot fulfill its subcontract, s/he shall advise the prime contractor and suggest a DBE that may replace their services or provide written consent to be released from its subcontract.
 - (1) Before the prime contractor can request to terminate or substitute a DBE firm; s/he must:
 - i. Make every effort to fulfill the DBE commitment by working with the listed DBE to ensure that they are fully knowledgeable of your expectations for successful performance on the contract. Document these efforts in writing.
 - ii. If those efforts fail, provide written notice to the DBE subcontractor of your *intent* to request to terminate and/or replace the firm including the reason(s) you want to pursue this action.
 - iii. Copy the DBE Office on all correspondence related to changing a DBE firm who has been approved for DBE credit on a contract including the preparation and coordination efforts with the DBE on the contract.
 - iv. Clearly state the amount of time the DBE firm has to remedy and/or respond to your notice of intent to replace/terminate their firm from the contract. The DBE shall be allowed five days to respond, in writing. **EXCEPTION:** The prime contractor must provide a verifiable reason for a response period shorter than five days. For example a WisDOT project manager must verify that waiting 5 days for a DBE performing traffic control work to respond would affect the public safety.
 - v. The DBE subcontractor must forward a written response to the prime contractor and copy the DBE Office. The written response must outline why it objects to the proposed termination of its subcontract and list the reasons that WisDOT should not approve the request for their firm to be replaced or removed from the contract.

The Request to Replace or Terminate a DBE

The prime contractor must provide a written request to replace or terminate a DBE firm that has been approved for DBE credit on a WisDOT contract. The written request can be an email or printed document delivered by email or fax; at minimum, the request must contain the following:

1. Contract ID number.
2. Wisconsin DOT Contract Project Manager name and contact information.
3. DBE name and work type and/or NAICS code.
4. Contract's progress schedule.
5. Reason(s) for requesting that the DBE be replaced or terminated.
6. Attach/include all communication with the DBE to deploy/address/resolve work completion,

WisDOT will review your request and any supporting documentation that you submit to evaluate whether the circumstance and the reasons constitute a good cause for replacing or terminating the DBE that was approved for DBE credit on that contract.

Examples of Good Causes to Replace a DBE according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract.
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor.
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements.
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.
- You have determined that the listed DBE subcontractor is not a responsible contractor.
- The listed DBE subcontractor voluntarily withdraws from the project and provides to you written notice of its withdrawal.
- The listed DBE is ineligible to receive DBE credit for the type of work required.
- A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract.

Evaluation and Response to the Request

If WisDOT determines that your reasons comply with the good cause standards; the DBE office will send the prime contractor and the WisDOT project manager an email stating that we concur with the reasons and approve the replacement or termination.

If WisDOT determines that your reasons do not comply with the good cause standards of the federal DBE program, the DBE Office will send the prime contractor an email that includes *the requirement* to utilize the committed DBE, *remedial actions* to support the completion of the contractual commitment, a list of available WisDOT support services *and administrative remedies that may be invoked* for failure to comply with federal DBE guidelines for DBE replacement.

The Wisconsin Department of transportation contact for all actions related to replacing a DBE is the DBE Program Chief and/or the DBE Program Engineer which can be reached at DBE_Alert@dot.wi.gov or by calling 608-267-3849.

17. DBE Utilization beyond the approved DBE Commitment Form DT1506

If the Prime/subcontractor increases the scope of work for a participating DBE or adds a DBE subcontractor that was not on the approved Form DT1506 at any time after contract award, s/he should follow these steps so that the participation can be accurately credited toward the DBE goal.

- a. Send an email to the DBE Engineer at DBE_Alert@dot.wi.gov describing the work to be performed by the new DBE including the proposed schedule or duration, DBE name and contact information. You may also call the DBE Engineer at 414-659-0487 to notify him of the change verbally.

If the scope change added work for a participating DBE; list the date and reason for the scope change.

- b. Forward a complete, signed Attachment 'A' form to the DBE Office at DBE_Alert@dot.wi.gov. A complete Attachment A includes DBE contact information, signature, subcontract value and proper description of the work areas to be performed by the DBE.

The DBE office will confirm the DBE participation and revise the DT1506 based on the email/discussion and attach the new/revised Attachment A to the Contract record/documentation.

18. Contract Modifications

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors that were committed to equal work items, in the original contract.

19. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

APPENDIX A

Sample Contractor Solicitation Letter Page 1

This sample is provided as a guide not a requirement

GFW SAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: REQUEST FOR DBE QUOTES
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but prime's alternatives are acceptable. Our office hours are include hours and days. Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx>

All questions should be directed to:

Project Manager, John Doe,

Phone: (000) 123-4567

Email: Joe@joetheplumber.com

Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTATION

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

- .. Yes, we will be quoting on the projects and items listed below
- .. No, we are not interested in quoting on the letting or its items referenced below
- .. Please take our name off your monthly DBE contact list
- .. We have questions about quoting this letting. Please have someone contact me at this number

Prime Contractor 's Contact Person

DBE Contractor Contact Person

Phone: _____

Fax: _____

Email: _____

Phone _____

Fax _____

Email _____

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

APPENDIX B

BEST PRACTICES FOR PRIME CONTRACTOR & DBE SUBCONTRACTOR GOOD FAITH EFFORT

This list is not a set of requirements; it is a list of potential strategies

Primes

- Ø Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance.
- Ø Participate in speed networking and mosaic exercises as arranged by DBE office.
- Ø Host information sessions not directly associated with a bid letting.
- Ø Participate in a formal mentor protégé or joint venture with a DBE firm.
- Ø Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Ø Facilitate a small group DBE ‘training session’ Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods.
- Ø Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Ø Quality of communication, not quantity creates the best results. Contractors should do as thorough a job as possible in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- Ø DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Ø Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Ø Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list, and bid tabs at a minimum.
- Ø Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation-related projects of similar size and scope, firm expertise and staffing.
- Ø Participate in DBE office assessment programs.
- Ø Participate on advisory and mega-project committees.
- Ø Sign up to receive the DBE Contracting Update.
- Ø Consider membership in relevant industry or contractor organizations.
- Ø Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX C

Types of Efforts considered in determining GFE

This list represents concepts being assessed; analysis requires additional steps

1. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by WisDOT to inform DBEs of contracting and subcontracting opportunities.
2. Whether the contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract was being solicited, in sufficient time to allow the DBEs to participate effectively.
3. Whether the contractor followed up initial solicitations of interest by contacting DBEs to determine if the DBEs were interested; returned the phone calls of interested DBE firms.
4. Whether the contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goal.
5. Whether the contractor provided interested DBEs with adequate information about the plans, specifications and requirements of the contract.
6. Whether the contractor negotiated in good faith with interested DBEs, not rejected DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities.
7. Whether the contractor made efforts to assist interested DBEs in being more competitive.
8. Whether the contractor effectively used the services of available minority community organizations: minority contractors groups, local, state, and Federal minority business assistance offices, and other organizations that provide assistance to small businesses and DBE firms.
9. Whether Prime used CRCS to identify DBE who specialize in relevant work areas.
10. Whether the contractor used available resources including contacting the DBE office, using WisDOT's website
11. Whether the contractor returned calls of firms expressing interest in a timely manner.

APPENDIX D

Good Faith Effort Evaluation Guidance

Excerpt from Appendix A of 49 CFR Part 26

APPENDIX A TO PART 26 -- GUIDANCE CONCERNING GOOD FAITH EFFORTS

- I. When, as a recipient, you establish a contract goal on a DOT assisted contract, a bidder must, in order to be responsible and/or responsive, make good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.
- II. In any situation in which you have established a contract goal, part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, it is up to you to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made. The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call: meeting quantitative formulas is not required.
- III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.
- IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.
 - A. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
 - B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 - C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - D.
 - (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
 - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a

contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

- E. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non solicitation of bids in the contractor's efforts to meet the project goal.
 - F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
 - G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- V. In determining whether a bidder has made good faith efforts, you may take into account the performance of other bidders in meeting the contract. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts.

Appendix E

Small Business Network [SBN] Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription.

Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
 - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for completion at a later time.
2. Create sub-quotes for the subcontracting community:
 - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
 - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
 - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE-preferred request.
 - d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
 - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
 - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
 - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
 - b. Easily locate pre-qualified and certified small and disadvantaged businesses.
 - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
 - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs.

1. View and reply to sub-quote requests from primes:
 - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests, or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
 - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
 - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes.
 - c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
 - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
 - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
 - c. Add attachments to a sub-quote.
 - d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime.
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to www.bidx.com and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.
 - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

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

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

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6**ASP 6 - Modifications to the standard specifications**

Make the following revisions to the standard specifications:

107.17.1 General

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

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

109.1.1 General

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

- (1) The engineer will use the US standard system to measure all work completed under the contract. The engineer will determine quantities of materials the contractor furnishes and work the contractor performs using measurement methods and computations conforming to standard engineering practice, modified to meet department requirements. The engineer will document these measurements using department procedures.
 - (2) The engineer will measure the work as the contract measurement subsection for individual items specifies. The department will measure the actual quantities of work the contractor acceptably completes and make final payment based on those actual measured quantities except as follows:
 1. If the measurement subsection for a bid item specifically restricts the quantity measured for payment or allows for use of conversion factors.
 2. If the engineer executes a contract change order modifying the method of measurement for specific bid items, the engineer will measure the quantities of applicable bid items for payment using the change order methods.
 3. If the engineer, under 105.3.1(2), approves a contractor-requested plan dimension change between US standard and SI metric dimensions, the engineer will measure whichever of the following is less:
 - Actual quantities constructed.
 - Quantities derived from the original plan dimensions.
 4. For substitutions made under 106.2.3 between US standard and SI metric products, the engineer will measure the actual quantities of the substitute products using the original contract measuring system.
-

305.2.1 General

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

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

420.3.2.1 General

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

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

420.3.2.2 Continuous Grinding

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

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

450.3.2.8 Jointing

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

- (3) Construct notched wedge longitudinal joints for mainline paving if the pavement thickness conforms to the minimums specified in 460.3.2, unless the engineer directs or allows an alternate joint. Construct the wedge using a slope no steeper than 3:1. Extend the wedge 12 inches beyond the normal lane width, or as the engineer directs. Ensure that the wedge for all layers directly overlaps and slopes in the same direction.
 - (4) Locate the joint at the pavement centerline for 2-lane roadways, or at lane lines if the roadway has more than 2 lanes. Construct a vertical notch 1/2-inch to 3/4-inch high on the centerline or lane line at the top of each wedge. Place a 1/2-inch to 3/4-inch notch at the outside bottom edge of the wedge after compacting each layer. Align the finished longitudinal joint line of the upper layer with the centerline or lane line.
 - (5) Construct the wedge for each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Shape and compact the wedge with a weighted steel side roller wheel the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.
-

455.2.4.3 Emulsified Asphalts

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

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

460.2.8.3.1.4 Department Verification Testing Requirements

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

- (3) The department will perform testing conforming to the following standards:
 - Bulk specific gravity (G_{mb}) of the compacted mixture according to AASHTO T166.
 - Maximum specific gravity (G_{mm}) according to AASHTO T209.
 - Air voids (V_a) by calculation according to AASHTO T269.
 - VMA by calculation according to AASHTO R35.
 - Asphalt content by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164, or Asphalt Analyzer™ according to manufacturer recommendations.
-

460.2.8.3.1.6 Acceptable Verification Parameters

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

- (1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:
 - V_a is within a range of 2.0 to 4.3 percent. For SMA, V_a is within a range of 2.7 to 5.3 percent.
 - VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.
 - Asphalt content is within minus 0.3 percent of the JMF.

460.2.8.3.1.7 Dispute Resolution

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

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

460.5.2.1 General

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

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

PAYMENT FOR MIXTURE^{[1] [2] [3]}

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

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

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

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

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

- (6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:
- Va greater than 5.0 or less than 1.5.
 - VMA more than 1.0 below the minimum allowed in table 460-1.
 - AC more than 0.5 % below the JMF target.

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

506.3.2 Shop Drawings

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

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

646.3.1.2 Liquid Marking

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

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

LIQUID MARKING		PAVEMENT TYPE	THICKNESS (mils)	BEAD APPLICATION (pounds per gallon)
Paint		all	16	8
Epoxy	SMA, seal coats, and polymer overlays		25	25
Epoxy		all other	20	22.5
Wet Reflective Epoxy		all	20	18

646.3.2.3.2 Wet Reflective Epoxy

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

- (1) Apply wet reflective epoxy binder in a grooved slot. and provide a double drop bead system as follows:
 - First: wet reflective/recoverable elements at the application rate specified for the product chosen from the department's APL.
 - Second: glass beads at the application rate specified in 646.3.1.2(5).

650.3.1 General

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

- (1) Department and contractor responsibilities for construction staking are specified in 105.6. Conform to 105.6 and the additional requirements specified here in 650.3 for the individual contractor-staking bid items the contract includes.
- (2) Protect and preserve known property and survey marks and land monuments as specified in 107.11.3. The contract may require related work under the 621 bid items.
- (3) Obtain or calculate benchmark data, grades, and alignment from plan information. The engineer will furnish data for the horizontal and vertical control points, control point ties, horizontal alignments, profiles, and elevations. Reestablish, set additional, and maintain the horizontal and vertical control points and control point ties, as needed for bid items.
- (4) Check horizontal and vertical information including but not limited to alignments, locations, elevations, and dimensions, that either the plans show or the engineer provides, for compatibility with existing field conditions. Conduct similar compatibility checks and accuracy checks of horizontal and vertical positions either the department or the contractor establishes in the field.
- (5) Perform survey work using conventional methods, or AMG methods capable of achieving the lines and grades the plans show for the work in question. Establish additional benchmarks and control points as necessary to support the method of operation.

650.3.1.1 Staking

- (1) Furnish, set, reference, and maintain stakes and markings necessary to establish the alignment, location, benchmarks, elevations, and continuous profile-grades for road and structure work as needed for bid items. Supervise and coordinate construction staking.
- (2) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. Make the survey notes and computations available to the engineer within 24 hours, upon request, as the work progresses.
- (3) Furnish surveying equipment, stakes, flags, pins, lath, whiskers, and other materials necessary to perform this work, subject to the engineer's approval.

650.3.1.2 Automated Machine Guidance**650.3.1.2.1 General**

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

650.3.1.2.2 AMG Work Plan

- (1) Submit a comprehensive written AMG work plan for department review at least 5 business days before the preconstruction conference. In that plan discuss how AMG technology will be integrated into other

technologies employed on the project. List the staking bid items that will have work performed using AMG and, for each bid item listed, include the following:

1. Designate which portions of the contract will be done using AMG and which portions will be done using conventional staking.
 2. Designate a single staff person as the primary contact for AMG technology issues.
 3. List and map the primary and secondary control points required under 105.6.2 enveloping the site.
 4. Describe the contractor's quality control procedures. Include the frequency and type of checks performed to ensure that the work conforms to the contract plans.
- (2) The engineer will review the plan to determine if it conforms to the contract. Do not perform AMG work until the engineer approves the governing portion of the AMG workplan. Perform the work as the contractor's AMG work plan provides. Update the plan as necessary.

650.3.1.2.3 Geometric and Surface Information

650.3.1.2.3.1 Department Responsibilities

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

650.3.1.2.3.2 Contractor Responsibilities

- (1) Develop and maintain a contractor construction model for areas of the project employing AMG. Confirm that the resulting model agrees with the contract plans.
- (2) If the engineer requests, provide the construction model to the department in LandXML or other engineer-approved format.

650.3.1.2.4 Managing and Updating Information

- (1) Notify the department of any errors or discrepancies in department-provided information. The department will determine what revisions may be required. The department will revise the contract plans, if necessary, to address errors or discrepancies that the contractor identifies. The department will provide the best available information related to those contract plan revisions.
- (2) Revise the construction model as required to support construction operations and to reflect any contract plan revisions the department makes. Perform checks to confirm that the revised construction model agrees with the contract plan revisions. If the engineer requests, provide construction model updates to the engineer. The department will pay for costs incurred to incorporate contract plan revisions as extra work.

650.3.1.2.5 Construction Checks

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

650.3.1.2.6 Construction Tolerances

- (1) Ensure that the finished work vertically matches existing or other completed features. Ensure that the work conforms to revised plan elevations as follows:
- Subgrade : +/- 0.10 feet.
 - Base : within the tolerance specified in 301.3.4.1(2).

650.3.3 Subgrade

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

650.3.3 Subgrade Staking

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

transitions. Locate stakes to within 0.25 feet horizontally and establish the grade elevation to within 0.03 feet vertically.

Errata

520.3.3 Laying Pipe

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

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

608.3.3 Laying Pipe

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

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

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to paul.ndon@dot.wi.gov within 5 days of payment receipt to be logged manually.

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

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

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

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

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

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

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

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

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

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

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

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

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

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

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

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

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

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

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

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

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Non-discrimination Provisions

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

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

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

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

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

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

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

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

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

Pertinent Non-Discrimination Authorities:

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

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

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

Effective August 2015 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

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

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

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

Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) Agreement Clauses. "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) Contractor and Subcontractor Clauses. "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT**

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS
FOR PROJECTS WITH FEDERAL AID**

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work."
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

<https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf>

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx>

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

- a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

General Decision Number: WI190010 01/04/2019 WI10

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date
0 01/04/2019

* BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

* BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

* BRWI0002-005 06/01/2018

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

* BRWI0003-002 06/01/2018

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

* BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

* BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

* BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

* BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

BRWI0011-002 06/01/2016		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.22	20.57

* BRWI0019-002 06/01/2018		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

* BRWI0034-002 06/01/2018		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016		

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016		

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except

area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

 CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

 CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

 CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

 CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

 ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPLEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

 ELEC0014-007 06/05/2018

REMAINING COUNTIES

Rates	Fringes
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Teledata System Installer
Installer/Technician.....\$ 26.25 13.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 32.38	18.63
Electrical contracts under \$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
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Electricians:.....	\$ 32.55	19.02

ELEC0430-002 06/01/2018		
RACINE COUNTY (Except Burlington Township)		
	Rates	Fringes
Electricians:.....	\$ 38.78	21.49

ELEC0494-005 06/01/2018		
MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018		
CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018		
DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES		
	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25
<p>Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, 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</p>		

ELEC0577-003 06/01/2018		
CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018		
DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES		

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/04/2018

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	22.10
Group 2.....	\$ 40.22	22.10
Group 3.....	\$ 39.72	22.10
Group 4.....	\$ 39.46	22.10
Group 5.....	\$ 39.17	22.10
Group 6.....	\$ 33.27	22.10

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" protection - \$3.00 per hour
EPA Level "B" protection - \$2.00 per hour
EPA Level "C" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and
extractor; heavy equipment, leadman; tank car heaters;
stump chipper; curb machine operator; Concrete
proportioning plants; generators; mudjack operator; rock
breaker; crusher or screening plant; screed (milling
machine); automatic belt conveyor and surge bin; pug mill
operator; Oiler, pump (over 3 inches); Drilling Machine
Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO
COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUCREE, RACINE, WALWORTH (N.E. 2/3),
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

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.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEREAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LABO0113-002 06/04/2018

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.88	21.76
Group 2.....	\$ 28.03	21.76
Group 3.....	\$ 28.23	21.76
Group 4.....	\$ 28.38	21.76
Group 5.....	\$ 28.53	21.76
Group 6.....	\$ 24.37	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/04/2018

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.13	21.76
Group 2.....	\$ 27.23	21.76
Group 3.....	\$ 27.28	21.76
Group 4.....	\$ 27.48	21.76
Group 5.....	\$ 27.33	21.76
Group 6.....	\$ 24.22	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/04/2018

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.94	21.76
Group 2.....	\$ 27.09	21.76
Group 3.....	\$ 27.29	21.76
Group 4.....	\$ 27.26	21.76
Group 5.....	\$ 27.59	21.76
Group 6.....	\$ 24.08	21.76

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/04/2018

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.80	17.20
Group 2.....	\$ 31.90	17.20
Group 3.....	\$ 31.95	17.20
Group 4.....	\$ 32.15	17.20
Group 5.....	\$ 32.00	17.20
Group 6.....	\$ 28.43	17.20

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter

(Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/04/2018

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.08	17..20
Group 2.....	\$ 32.18	17..20
Group 3.....	\$ 32.23	17..20
Group 4.....	\$ 32.43	17..20
Group 5.....	\$ 32.28	17..20
Group 6.....	\$ 28.43	17..20

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 28.25	17.72

PREMIUM PAY:
Structural Steel, Spray, Bridges = \$1.00 additional per
hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

- AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES
- AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES
- AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES
- AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES
- AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES
- AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018		
	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

 * BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

 * BRWI0006-002 06/01/2018

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
 ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

 * BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

 * BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

 * BRWI0009-001 06/01/2018

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
 AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

 BRWI0011-002 06/01/2016

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.22	20.57

 * BRWI0013-002 06/01/2018

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

 * BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
 PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

 * BRWI0021-002 06/01/2018

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 35.24	22.15
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* BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
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PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

CARP2337-003 06/01/2016

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 29.98	21.53
Zone B.....	\$ 29.98	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE (Wausaukee and area South thereof), OCONTO, MENOMINEE
(East of a line 6 miles West of the West boundary of Oconto
County), SHAWANO (Except Area North of Townships of Aniwa and
Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and
Emmet Townships), GREEN, LAKE (except Townships of Berlin,
Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of
Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern,
Florence and Homestead) AND MARINETTE COUNTY (Township of
Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 32.38	18.63
Electrical contracts under		

\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018		
DOUGLAS COUNTY		
	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018		
ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

ELEC0430-002 06/01/2018		
RACINE COUNTY (Except Burlington Township)		
	Rates	Fringes
Electricians:.....	\$ 38.78	21.49

ELEC0494-005 06/01/2018		
MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018		
CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0577-003 06/01/2018		
CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018		
DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES		
	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ENGI0139-003 06/04/2018		
REMAINING COUNTIES		
	Rates	Fringes
Power Equipment Operator		

Group 1.....	\$ 40.72	21.60
Group 2.....	\$ 39.47	21.60
Group 3.....	\$ 38.17	21.60
Group 4.....	\$ 37.64	21.60
Group 5.....	\$ 35.57	21.60
Group 6.....	\$ 34.04	21.60

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour
EPA Level "B" Protection: \$2.00 per hour
EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

ENG10139-007 06/04/2018

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE,
RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.19	21.65
Group 2.....	\$ 39.41	21.65
Group 3.....	\$ 38.46	21.65
Group 4.....	\$ 37.41	21.65
Group 5.....	\$ 36.01	21.65

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 and Winch 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 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

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.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LABO0113-004 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 15.11	20.65
Group 2.....	\$ 17.38	20.65
Group 3.....	\$ 20.92	20.65
Group 4.....	\$ 30.29	20.65
Group 5.....	\$ 30.43	20.65

Group 6.....	\$ 30.49	20.65
Group 7.....	\$ 32.70	20.65
Group 8.....	\$ 35.52	20.65
Group 9.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc;
Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner;
Pipe Layer; Rock Driller and Joint Man; Timber Man and
Concrete Brusher; Bracer in Trench Behind Machine & Tight
Sheeting; Concrete Formsetter and Shoveler; Jackhammer
Operator

GROUP 9: Blaster

LABO0113-005 06/04/2018

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 21.78	20.65
Group 2.....	\$ 27.71	20.65
Group 3.....	\$ 30.27	20.65
Group 4.....	\$ 32.04	20.65

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30
lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation,
Wire Mesh and Reinforcement, Concrete Worker, Form
Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form
Setting, Patch Finisher, Bottom Man, Joint Sawyer, Gunnite
Man, Manhole Builder, Welder-Torchman, Blaster, Caulker,
Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher,
Raker and Luteman, Hydraulic Jacking of Shields, Shield
Drivers, Mining Machine, Lock Tenders, Mucking Machine
Operator, Motor Men & Gauge Tenders and operation of
incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LABO0113-008 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 30.49	20.65
Group 4.....	\$ 32.70	20.65
Group 5.....	\$ 32.84	20.65

Group 6.....	\$ 35.52	20.65
Group 7.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner;
Mining Machine; Welder; Rock Driller; Concrete Buster; Jack
Hammer Operator; Caisson Worker; Pipelayer and Joint Man;
Bracerman

GROUP 7: Blaster

* LABO0113-009 06/04/2018

MILWAUKEE, OZAUCKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 33.24	20.65
Group 4.....	\$ 34.04	20.65
Group 5.....	\$ 34.16	20.65
Group 6.....	\$ 36.86	20.65
Group 7.....	\$ 37.48	20.65

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add \$2.00 to all classifications
*Compressed Air over 30 lbs add \$3.00 to all classifications

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder &
Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack
Hammer Operator; Caisson Worker; Pipelayer 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 06/04/2018

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE,
FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA,
JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK,
PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER,
SHAWANO, SHEBOYGAN, TAYLOR, TREMPPEALEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

Rates	Fringes
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LABORER (SEWER & WATER)

Group 1.....	\$ 27.41	17.20
Group 2.....	\$ 29.26	17.20
Group 3.....	\$ 29.46	17.20
Group 4.....	\$ 30.21	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00,
15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form
Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LABO0464-002 06/04/2018

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.31	17.20
Group 2.....	\$ 29.51	17.20
Group 3.....	\$ 29.71	17.20
Group 4.....	\$ 30.46	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add
\$1.00, 15- 30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete
Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LABO1091-010 06/04/2018

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 27.10	17.20
Group 2.....	\$ 29.16	17.20
Group 3.....	\$ 29.36	17.20
Group 4.....	\$ 30.11	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add
\$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper;
Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20
WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their

own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of

each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

August 2018

NOTICE TO BIDDERS WAGE RATE DECISION

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

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

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

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

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



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Proposal ID: 20190312064 Project(s): 1500-37-74, 1500-37-75, 4570-12-71, 4570-12-72

Federal ID(s): WISC 2018472, N/A, N/A, WISC 2019210

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	1.000 STA	_____.	_____.
0004	201.0120 Clearing	2,760.000 ID	_____.	_____.
0006	201.0205 Grubbing	1.000 STA	_____.	_____.
0008	201.0220 Grubbing	2,900.000 ID	_____.	_____.
0010	203.0200 Removing Old Structure (station) 02. 179'EB'+26	LS	LUMP SUM	_____.
0012	204.0100 Removing Pavement	54,990.000 SY	_____.	_____.
0014	204.0110 Removing Asphaltic Surface	675.000 SY	_____.	_____.
0016	204.0130 Removing Curb	20.000 LF	_____.	_____.
0018	204.0150 Removing Curb & Gutter	150.000 LF	_____.	_____.
0020	204.0155 Removing Concrete Sidewalk	7,070.000 SY	_____.	_____.
0022	204.0195 Removing Concrete Bases	24.000 EACH	_____.	_____.
0024	204.0210 Removing Manholes	39.000 EACH	_____.	_____.
0026	204.0220 Removing Inlets	121.000 EACH	_____.	_____.
0028	204.0245 Removing Storm Sewer (size) 01. 12- Inch or Less	3,980.000 LF	_____.	_____.
0030	204.0245 Removing Storm Sewer (size) 02. 15- Inch	1,132.000 LF	_____.	_____.
0032	204.0245 Removing Storm Sewer (size) 03. 18- Inch	618.000 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0034	204.0245 Removing Storm Sewer (size) 04. 21-Inch	430.000 LF	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 05. 24-Inch	488.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 06. 36-Inch	85.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 07. 42-Inch	730.000 LF	_____.	_____.
0042	204.0245 Removing Storm Sewer (size) 08. 48-Inch	165.000 LF	_____.	_____.
0044	204.0245 Removing Storm Sewer (size) 09. 60-Inch	220.000 LF	_____.	_____.
0046	204.0250 Abandoning Manholes	8.000 EACH	_____.	_____.
0048	204.0280 Sealing Pipes	2.000 EACH	_____.	_____.
0050	204.0291.S Abandoning Sewer	1,965.000 CY	_____.	_____.
0052	204.9060.S Removing (item description) 01. Light Poles and Bases	57.000 EACH	_____.	_____.
0054	205.0100 Excavation Common	46,930.000 CY	_____.	_____.
0056	209.0200.S Backfill Controlled Low Strength	1,035.000 CY	_____.	_____.
0058	213.0100 Finishing Roadway (project) 01. 1500-37-74	1.000 EACH	_____.	_____.
0060	213.0100 Finishing Roadway (project) 02. 4570-12-71	1.000 EACH	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0062	305.0120 Base Aggregate Dense 1 1/4-Inch	24,015.000 TON	_____.	_____.
0064	310.0115 Base Aggregate Open-Graded	95.000 CY	_____.	_____.
0066	311.0110 Breaker Run	43,870.000 TON	_____.	_____.
0068	320.0155 Concrete Base 9-Inch	300.000 SY	_____.	_____.
0070	405.0100 Coloring Concrete WisDOT Red	364.000 CY	_____.	_____.
0072	415.0080 Concrete Pavement 8-Inch	6,625.000 SY	_____.	_____.
0074	415.0085 Concrete Pavement 8 1/2-Inch	40,635.000 SY	_____.	_____.
0076	415.0095 Concrete Pavement 9 1/2-Inch	1,430.000 SY	_____.	_____.
0078	415.0210 Concrete Pavement Gaps	2.000 EACH	_____.	_____.
0080	415.1080 Concrete Pavement HES 8-Inch	200.000 SY	_____.	_____.
0082	415.1085 Concrete Pavement HES 8 1/2-Inch	200.000 SY	_____.	_____.
0084	415.4100 Concrete Pavement Joint Filling	52,355.000 SY	_____.	_____.
0086	415.5110.S Concrete Pavement Joint Layout 01. 1500-37-74	1.000 LS	_____.	_____.
0088	415.5110.S Concrete Pavement Joint Layout 02. 4570-12-71	1.000 LS	_____.	_____.
0090	415.5110.S Concrete Pavement Joint Layout 03. 4570-37-72	1.000 LS	_____.	_____.
0092	416.0160 Concrete Driveway 6-Inch	1,780.000 SY	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0094	416.0512 Concrete Truck Apron 12-Inch	410.000 SY	_____.	_____.
0096	416.0610 Drilled Tie Bars	118.000 EACH	_____.	_____.
0098	416.0620 Drilled Dowel Bars	748.000 EACH	_____.	_____.
0100	455.0605 Tack Coat	57.600 GAL	_____.	_____.
0102	460.2000 Incentive Density HMA Pavement	170.000 DOL	1.00000	170.00
0104	460.6223 HMA Pavement 3 MT 58-28 S	110.000 TON	_____.	_____.
0106	460.6224 HMA Pavement 4 MT 58-28 S	140.000 TON	_____.	_____.
0108	465.0105 Asphaltic Surface	25.000 TON	_____.	_____.
0110	465.0120 Asphaltic Surface Driveways and Field Entrances	40.000 TON	_____.	_____.
0112	465.0125 Asphaltic Surface Temporary	665.000 TON	_____.	_____.
0114	465.0310 Asphaltic Curb	391.000 LF	_____.	_____.
0116	502.0100 Concrete Masonry Bridges	50.000 CY	_____.	_____.
0118	502.3200 Protective Surface Treatment	110.000 SY	_____.	_____.
0120	502.3210 Pigmented Surface Sealer	35.000 SY	_____.	_____.
0122	502.4204 Adhesive Anchors No. 4 Bar	260.000 EACH	_____.	_____.
0124	504.0900 Concrete Masonry Endwalls	3.000 CY	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0126	505.0600 Bar Steel Reinforcement HS Coated Structures	4,540.000 LB	_____.	_____.
0128	509.0301 Preparation Decks Type 1	30.000 SY	_____.	_____.
0130	509.0302 Preparation Decks Type 2	15.000 SY	_____.	_____.
0132	509.0310.S Sawing Pavement Deck Preparation Areas	60.000 LF	_____.	_____.
0134	509.1500 Concrete Surface Repair	50.000 SF	_____.	_____.
0136	509.2000 Full-Depth Deck Repair	5.000 SY	_____.	_____.
0138	509.2100.S Concrete Masonry Deck Repair	5.000 CY	_____.	_____.
0140	513.7016 Railing Steel Type C3	70.000 LF	_____.	_____.
0142	516.0610.S Sheet Membrane Waterproofing for Top Slab (structure) 01. B-36-900	280.000 SY	_____.	_____.
0144	517.1010.S Concrete Staining (structure) 01. B-36-900	460.000 SF	_____.	_____.
0146	517.1050.S Architectural Surface Treatment (structure) 01. B-36-900	160.000 SF	_____.	_____.
0148	520.8000 Concrete Collars for Pipe	16.000 EACH	_____.	_____.
0150	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	1.000 EACH	_____.	_____.
0152	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	4.000 EACH	_____.	_____.
0154	601.0105 Concrete Curb Type A	20.000 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0156	601.0405 Concrete Curb & Gutter 18-Inch Type A	3,375.000 LF	_____.	_____.
0158	601.0409 Concrete Curb & Gutter 30-Inch Type A	6,320.000 LF	_____.	_____.
0160	601.0411 Concrete Curb & Gutter 30-Inch Type D	260.000 LF	_____.	_____.
0162	601.0413 Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	220.000 LF	_____.	_____.
0164	601.0580 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	365.000 LF	_____.	_____.
0166	601.0600 Concrete Curb Pedestrian	490.000 LF	_____.	_____.
0168	602.0405 Concrete Sidewalk 4-Inch	69,315.000 SF	_____.	_____.
0170	602.0410 Concrete Sidewalk 5-Inch	7,000.000 SF	_____.	_____.
0172	602.0415 Concrete Sidewalk 6-Inch	5,050.000 SF	_____.	_____.
0174	602.0505 Curb Ramp Detectable Warning Field Yellow	870.000 SF	_____.	_____.
0176	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	54.000 SF	_____.	_____.
0178	602.1500 Concrete Steps	30.000 SF	_____.	_____.
0180	606.0200 Riprap Medium	5.000 CY	_____.	_____.
0182	606.0300 Riprap Heavy	560.000 CY	_____.	_____.
0184	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	2,584.000 LF	_____.	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0186	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	1,114.000 LF	_____.	_____.
0188	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	928.000 LF	_____.	_____.
0190	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	1,744.000 LF	_____.	_____.
0192	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	273.000 LF	_____.	_____.
0194	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	477.000 LF	_____.	_____.
0196	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	164.000 LF	_____.	_____.
0198	608.0360 Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	568.000 LF	_____.	_____.
0200	608.0366 Storm Sewer Pipe Reinforced Concrete Class III 66-Inch	520.000 LF	_____.	_____.
0202	608.0372 Storm Sewer Pipe Reinforced Concrete Class III 72-Inch	1,836.000 LF	_____.	_____.
0204	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	29.000 LF	_____.	_____.
0206	608.0466 Storm Sewer Pipe Reinforced Concrete Class IV 66-Inch	934.000 LF	_____.	_____.
0208	611.0535 Manhole Covers Type J-Special	32.000 EACH	_____.	_____.
0210	611.0624 Inlet Covers Type H	128.000 EACH	_____.	_____.
0212	611.0630 Inlet Covers Type HM-GJ	1.000 EACH	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0214	611.0639 Inlet Covers Type H-S	43.000 EACH	_____.	_____.
0216	611.0642 Inlet Covers Type MS	1.000 EACH	_____.	_____.
0218	611.0652 Inlet Covers Type T	2.000 EACH	_____.	_____.
0220	611.1004 Catch Basins 4-FT Diameter	26.000 EACH	_____.	_____.
0222	611.1005 Catch Basins 5-FT Diameter	1.000 EACH	_____.	_____.
0224	611.1006 Catch Basins 6-FT Diameter	1.000 EACH	_____.	_____.
0226	611.1230 Catch Basins 2x3-FT	146.000 EACH	_____.	_____.
0228	611.2004 Manholes 4-FT Diameter	10.000 EACH	_____.	_____.
0230	611.2005 Manholes 5-FT Diameter	9.000 EACH	_____.	_____.
0232	611.2006 Manholes 6-FT Diameter	2.000 EACH	_____.	_____.
0234	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.	_____.
0236	611.2008 Manholes 8-FT Diameter	5.000 EACH	_____.	_____.
0238	611.2504 Manholes Variable Tee 4-FT Diameter	4.000 EACH	_____.	_____.
0240	611.3003 Inlets 3-FT Diameter	1.000 EACH	_____.	_____.
0242	611.3901 Inlets Median 1 Grate	1.000 EACH	_____.	_____.
0244	611.8115 Adjusting Inlet Covers	2.000 EACH	_____.	_____.
0246	611.8120.S Cover Plates Temporary	8.000 EACH	_____.	_____.



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Federal ID(s): WISC 2018472, N/A, N/A, WISC 2019210

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0248	611.9800.S Pipe Grates	1.000 EACH	_____.	_____.
0250	612.0106 Pipe Underdrain 6-Inch	1,840.000 LF	_____.	_____.
0252	612.0902.S Insulation Board Polystyrene (inch) 01.2-Inch	1,270.000 SY	_____.	_____.
0254	614.0920 Salvaged Rail	330.000 LF	_____.	_____.
0256	614.0925 Salvaged Guardrail End Treatments	2.000 EACH	_____.	_____.
0258	616.0700.S Fence Safety	2,500.000 LF	_____.	_____.
0260	619.1000 Mobilization	1.000 EACH	_____.	_____.
0262	620.0100 Concrete Corrugated Median	2,280.000 SF	_____.	_____.
0264	620.0300 Concrete Median Sloped Nose	1,260.000 SF	_____.	_____.
0266	623.0200 Dust Control Surface Treatment	65,000.000 SY	_____.	_____.
0268	624.0100 Water	850.000 MGAL	_____.	_____.
0270	625.0100 Topsoil	35,635.000 SY	_____.	_____.
0272	627.0200 Mulching	14,700.000 SY	_____.	_____.
0274	628.1504 Silt Fence	7,350.000 LF	_____.	_____.
0276	628.1520 Silt Fence Maintenance	43,500.000 LF	_____.	_____.
0278	628.1905 Mobilizations Erosion Control	11.000 EACH	_____.	_____.



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Federal ID(s): WISC 2018472, N/A, N/A, WISC 2019210

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0280	628.1910 Mobilizations Emergency Erosion Control	11.000 EACH	_____.	_____.
0282	628.2004 Erosion Mat Class I Type B	1,650.000 SY	_____.	_____.
0284	628.2006 Erosion Mat Urban Class I Type A	28,585.000 SY	_____.	_____.
0286	628.7005 Inlet Protection Type A	178.000 EACH	_____.	_____.
0288	628.7010 Inlet Protection Type B	2.000 EACH	_____.	_____.
0290	628.7015 Inlet Protection Type C	175.000 EACH	_____.	_____.
0292	628.7020 Inlet Protection Type D	50.000 EACH	_____.	_____.
0294	628.7555 Culvert Pipe Checks	3.000 EACH	_____.	_____.
0296	628.7560 Tracking Pads	14.000 EACH	_____.	_____.
0298	628.7570 Rock Bags	200.000 EACH	_____.	_____.
0300	629.0210 Fertilizer Type B	33.400 CWT	_____.	_____.
0302	630.0130 Seeding Mixture No. 30	575.000 LB	_____.	_____.
0304	630.0140 Seeding Mixture No. 40	670.000 LB	_____.	_____.
0306	630.0200 Seeding Temporary	230.000 LB	_____.	_____.
0308	630.0300 Seeding Borrow Pit	230.000 LB	_____.	_____.
0310	630.0400 Seeding Nurse Crop	9.000 LB	_____.	_____.
0312	631.0300 Sod Water	419.000 MGAL	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0314	631.1000 Sod Lawn	7,060.000 SY	_____.	_____.
0316	632.0101 Trees (species) (size) (root) 01. Autumn Gold Ginkgo, 2-Inch Cal., B&B	3.000 EACH	_____.	_____.
0318	632.0101 Trees (species) (size) (root) 02. Common Hackberry, 2-Inch Cal., B&B	6.000 EACH	_____.	_____.
0320	632.0101 Trees (species) (size) (root) 03. Espresso Kentucky Coffeetree, 2-Inch Cal., B&B	11.000 EACH	_____.	_____.
0322	632.0101 Trees (species) (size) (root) 04. Regal Elm, 2-Inch Cal., B&B	6.000 EACH	_____.	_____.
0324	632.0101 Trees (species) (size) (root) 05. Red Maple, 2-Inch Cal., B&B	9.000 EACH	_____.	_____.
0326	632.0101 Trees (species) (size) (root) 06. Redmond Linden, 2-Inch Cal., B&B	8.000 EACH	_____.	_____.
0328	632.0101 Trees (species) (size) (root) 07. Skyline Honeylocust, 2-Inch Cal., B&B	10.000 EACH	_____.	_____.
0330	632.0101 Trees (species) (size) (root) 08. Swamp White Oak, 2-Inch Cal., B&B	8.000 EACH	_____.	_____.
0332	632.0101 Trees (species) (size) (root) 09. Autumn Brilliance Serviceberry, 1.5-Inch Cal., B&B	16.000 EACH	_____.	_____.
0334	632.0101 Trees (species) (size) (root) 10. Colorado Blue Spruce, 6-Foot HT. Cal., B&B	11.000 EACH	_____.	_____.
0336	632.0101 Trees (species) (size) (root) 11. Crusader Thornless Cockspur Hawthorn, 1.5-Inch Cal., B&B	2.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0338	632.0101 Trees (species) (size) (root) 12. Crusader Thornless Cockspur Hawthorn, 1.5-Inch Cal., B&B	8.000 EACH	_____.	_____.
0340	632.0101 Trees (species) (size) (root) 13. Spring Snow Crabapple, 1.5-Inch Cal., B&B	2.000 EACH	_____.	_____.
0342	632.0201 Shrubs (species) (size) (root) 01. Plumosa Creeping Juniper, 6-Inch HT., CG	111.000 EACH	_____.	_____.
0344	632.9101 Landscape Planting Surveillance and Care Cycles	20.000 EACH	_____.	_____.
0346	634.0612 Posts Wood 4x6-Inch X 12-FT	8.000 EACH	_____.	_____.
0348	634.0614 Posts Wood 4x6-Inch X 14-FT	49.000 EACH	_____.	_____.
0350	634.0616 Posts Wood 4x6-Inch X 16-FT	46.000 EACH	_____.	_____.
0352	634.0618 Posts Wood 4x6-Inch X 18-FT	10.000 EACH	_____.	_____.
0354	634.0622 Posts Wood 4x6-Inch X 22-FT	1.000 EACH	_____.	_____.
0356	637.0620 Sign Flags Permanent Type II	16.000 EACH	_____.	_____.
0358	637.2210 Signs Type II Reflective H	965.560 SF	_____.	_____.
0360	637.2215 Signs Type II Reflective H Folding	82.060 SF	_____.	_____.
0362	637.2230 Signs Type II Reflective F	163.000 SF	_____.	_____.
0364	637.5453 Barricades Permanent Type III	4.000 EACH	_____.	_____.
0366	638.2102 Moving Signs Type II	1.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0368	638.2602 Removing Signs Type II	123.000 EACH	_____.	_____.
0370	638.3000 Removing Small Sign Supports	81.000 EACH	_____.	_____.
0372	638.3155 Removing Overhead Sign Supports Full Span (structure) 01. S-36-025	1.000 EACH	_____.	_____.
0374	638.3155 Removing Overhead Sign Supports Full Span (structure) 02. S-36-034	1.000 EACH	_____.	_____.
0376	638.3155 Removing Overhead Sign Supports Full Span (structure) 03. S-36-35	1.000 EACH	_____.	_____.
0378	638.4000 Moving Small Sign Supports	1.000 EACH	_____.	_____.
0380	641.8100 Overhead Sign Support (structure) 01. S-36-18	LS	LUMP SUM	_____.
0382	641.8100 Overhead Sign Support (structure) 02. S-36-19	LS	LUMP SUM	_____.
0384	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0386	643.0300 Traffic Control Drums	68,750.000 DAY	_____.	_____.
0388	643.0420 Traffic Control Barricades Type III	16,790.000 DAY	_____.	_____.
0390	643.0500 Traffic Control Flexible Tubular Marker Posts	70.000 EACH	_____.	_____.
0392	643.0600 Traffic Control Flexible Tubular Marker Bases	70.000 EACH	_____.	_____.
0394	643.0705 Traffic Control Warning Lights Type A	34,080.000 DAY	_____.	_____.
0396	643.0715 Traffic Control Warning Lights Type C	4,540.000 DAY	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	643.0800 Traffic Control Arrow Boards	28.000 DAY	_____.	_____.
0400	643.0900 Traffic Control Signs	84,547.000 DAY	_____.	_____.
0402	643.0910 Traffic Control Covering Signs Type I	7.000 EACH	_____.	_____.
0404	643.0920 Traffic Control Covering Signs Type II	18.000 EACH	_____.	_____.
0406	643.1000 Traffic Control Signs Fixed Message	117.000 SF	_____.	_____.
0408	643.1050 Traffic Control Signs PCMS	238.000 DAY	_____.	_____.
0410	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0412	644.1410.S Temporary Pedestrian Surface Asphalt	6,350.000 SF	_____.	_____.
0414	644.1420.S Temporary Pedestrian Surface Plywood	2,000.000 SF	_____.	_____.
0416	644.1430.S Temporary Pedestrian Surface Plate	2,000.000 SF	_____.	_____.
0418	644.1601.S Temporary Curb Ramp	41.000 EACH	_____.	_____.
0420	644.1616.S Temporary Pedestrian Safety Fence	5,020.000 LF	_____.	_____.
0422	645.0111 Geotextile Type DF Schedule A	1,180.000 SY	_____.	_____.
0424	645.0120 Geotextile Type HR	660.000 SY	_____.	_____.
0426	645.0140 Geotextile Type SAS	2,100.000 SY	_____.	_____.
0428	645.0220 Geogrid Type SR	2,000.000 SY	_____.	_____.
0430	646.1020 Marking Line Epoxy 4-Inch	4,350.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0432	646.3020 Marking Line Epoxy 8-Inch	2,495.000 LF	_____.	_____.
0434	646.5020 Marking Arrow Epoxy	33.000 EACH	_____.	_____.
0436	646.5120 Marking Word Epoxy	12.000 EACH	_____.	_____.
0438	646.6120 Marking Stop Line Epoxy 18-Inch	430.000 LF	_____.	_____.
0440	646.7120 Marking Diagonal Epoxy 12-Inch	50.000 LF	_____.	_____.
0442	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	3,040.000 LF	_____.	_____.
0444	646.8120 Marking Curb Epoxy	300.000 LF	_____.	_____.
0446	646.8220 Marking Island Nose Epoxy	29.000 EACH	_____.	_____.
0448	646.9000 Marking Removal Line 4-Inch	15.000 LF	_____.	_____.
0450	646.9010 Marking Removal Line Water Blasting 4-Inch	620.000 LF	_____.	_____.
0452	646.9100 Marking Removal Line 8-Inch	410.000 LF	_____.	_____.
0454	646.9300 Marking Removal Special Marking	3.000 EACH	_____.	_____.
0456	649.0105 Temporary Marking Line Paint 4-Inch	2,705.000 LF	_____.	_____.
0458	649.0150 Temporary Marking Line Removable Tape 4-Inch	7,115.000 LF	_____.	_____.
0460	650.4000 Construction Staking Storm Sewer	225.000 EACH	_____.	_____.
0462	650.4500 Construction Staking Subgrade	15,221.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0464	650.5000 Construction Staking Base	140.000 LF	_____.	_____.
0466	650.5500 Construction Staking Curb Gutter and Curb & Gutter	620.000 LF	_____.	_____.
0468	650.6500 Construction Staking Structure Layout (structure) 03. B-36-900	LS	LUMP SUM	_____.
0470	650.7000 Construction Staking Concrete Pavement	15,226.000 LF	_____.	_____.
0472	650.8500 Construction Staking Electrical Installations (project) 01. 1500-37-74	LS	LUMP SUM	_____.
0474	650.8500 Construction Staking Electrical Installations (project) 02. 4570-12-71	LS	LUMP SUM	_____.
0476	650.9910 Construction Staking Supplemental Control (project) 01. 1500-37-74	LS	LUMP SUM	_____.
0478	650.9910 Construction Staking Supplemental Control (project) 02. 4570-12-71	LS	LUMP SUM	_____.
0480	650.9910 Construction Staking Supplemental Control (project) 03. 4570-12-72	LS	LUMP SUM	_____.
0482	650.9920 Construction Staking Slope Stakes	15,221.000 LF	_____.	_____.
0484	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	7,385.000 LF	_____.	_____.
0486	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,883.000 LF	_____.	_____.
0488	652.0800 Conduit Loop Detector	1,784.000 LF	_____.	_____.
0490	653.0135 Pull Boxes Steel 24x36-Inch	10.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0492	653.0140 Pull Boxes Steel 24x42-Inch	19.000 EACH	_____.	_____.
0494	653.0905 Removing Pull Boxes	18.000 EACH	_____.	_____.
0496	654.0101 Concrete Bases Type 1	14.000 EACH	_____.	_____.
0498	654.0102 Concrete Bases Type 2	4.000 EACH	_____.	_____.
0500	654.0110 Concrete Bases Type 10	1.000 EACH	_____.	_____.
0502	654.0113 Concrete Bases Type 13	3.000 EACH	_____.	_____.
0504	654.0217 Concrete Control Cabinet Bases Type 9 Special	2.000 EACH	_____.	_____.
0506	655.0230 Cable Traffic Signal 5-14 AWG	870.000 LF	_____.	_____.
0508	655.0240 Cable Traffic Signal 7-14 AWG	1,269.000 LF	_____.	_____.
0510	655.0250 Cable Traffic Signal 9-14 AWG	527.000 LF	_____.	_____.
0512	655.0260 Cable Traffic Signal 12-14 AWG	936.000 LF	_____.	_____.
0514	655.0270 Cable Traffic Signal 15-14 AWG	653.000 LF	_____.	_____.
0516	655.0515 Electrical Wire Traffic Signals 10 AWG	2,349.000 LF	_____.	_____.
0518	655.0610 Electrical Wire Lighting 12 AWG	10,716.000 LF	_____.	_____.
0520	655.0620 Electrical Wire Lighting 8 AWG	1,983.000 LF	_____.	_____.
0522	655.0700 Loop Detector Lead In Cable	4,509.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0524	655.0800 Loop Detector Wire	5,966.000 LF	_____.	_____.
0526	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. USH 10 & 11th Street	LS	LUMP SUM	_____.
0528	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. USH 10 & 8th Avenue	LS	LUMP SUM	_____.
0530	657.0100 Pedestal Bases	14.000 EACH	_____.	_____.
0532	657.0255 Transformer Bases Breakaway 11 1/2- Inch Bolt Circle	4.000 EACH	_____.	_____.
0534	657.0305 Poles Type 2	2.000 EACH	_____.	_____.
0536	657.0310 Poles Type 3	2.000 EACH	_____.	_____.
0538	657.0350 Poles Type 10	1.000 EACH	_____.	_____.
0540	657.0360 Poles Type 13	4.000 EACH	_____.	_____.
0542	657.0425 Traffic Signal Standards Aluminum 15-FT	10.000 EACH	_____.	_____.
0544	657.0430 Traffic Signal Standards Aluminum 10-FT	4.000 EACH	_____.	_____.
0546	657.0530 Monotube Arms 30-FT	1.000 EACH	_____.	_____.
0548	657.0535 Monotube Arms 35-FT	1.000 EACH	_____.	_____.
0550	657.0545 Monotube Arms 45-FT	3.000 EACH	_____.	_____.
0552	657.0590 Trombone Arms 20-FT	1.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0554	657.0595 Trombone Arms 25-FT	3.000 EACH	_____.	_____.
0556	657.0815 Luminaire Arms Steel 15-FT	4.000 EACH	_____.	_____.
0558	658.0173 Traffic Signal Face 3S 12-Inch	23.000 EACH	_____.	_____.
0560	658.0174 Traffic Signal Face 4S 12-Inch	6.000 EACH	_____.	_____.
0562	658.0416 Pedestrian Signal Face 16-Inch	16.000 EACH	_____.	_____.
0564	658.0500 Pedestrian Push Buttons	16.000 EACH	_____.	_____.
0566	658.5069 Signal Mounting Hardware (location) 01. USH 10 & 11th Street	LS	LUMP SUM	_____.
0568	658.5069 Signal Mounting Hardware (location) 02. USH 10 & 8th Avenue	LS	LUMP SUM	_____.
0570	690.0150 Sawing Asphalt	525.000 LF	_____.	_____.
0572	690.0250 Sawing Concrete	3,960.000 LF	_____.	_____.
0574	715.0415 Incentive Strength Concrete Pavement	14,450.000 DOL	1.00000	14,450.00
0576	715.0502 Incentive Strength Concrete Structures	300.000 DOL	1.00000	300.00
0578	715.0710 Optimized Aggregate Gradation Incentive	45,398.000 DOL	1.00000	45,398.00
0580	999.1500.S Crack and Damage Survey	LS	LUMP SUM	_____.
0582	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	4,800.000 HRS	5.00000	24,000.00
0584	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	6,080.000 HRS	5.00000	30,400.00



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0586	SPV.0035 Special 01. Planting Soil Mix	335.000 CY	_____.	_____.
0588	SPV.0035 Special 02. Removing Buried Cattle Pass, Station 161+35	10.000 CY	_____.	_____.
0590	SPV.0060 Special 01. Inlet Covers Type DW	1.000 EACH	_____.	_____.
0592	SPV.0060 Special 02. Inlet Covers Type BH	1.000 EACH	_____.	_____.
0594	SPV.0060 Special 03. Manhole Covers Bolted	11.000 EACH	_____.	_____.
0596	SPV.0060 Special 04. Apron Endwalls For Culvert Pipe Reinf Conc Horizontal Elliptical 72x113-Inch	1.000 EACH	_____.	_____.
0598	SPV.0060 Special 05. Manholes 10-FT	11.000 EACH	_____.	_____.
0600	SPV.0060 Special 06. Manholes 9.5x16-FT	1.000 EACH	_____.	_____.
0602	SPV.0060 Special 07. Mini Storm Sewer Cleanout	14.000 EACH	_____.	_____.
0604	SPV.0060 Special 08. Concrete Cap Over Sanitary Sewer	1.000 EACH	_____.	_____.
0606	SPV.0060 Special 09. Utility Line Opening (ULO)	40.000 EACH	_____.	_____.
0608	SPV.0060 Special 10. Walker's Low Blue Catmint	228.000 EACH	_____.	_____.
0610	SPV.0060 Special 11. Salvage Light Poles and Remove Concrete Bases	5.000 EACH	_____.	_____.
0612	SPV.0060 Special 20. Concrete Bases Type 7 Special	35.000 EACH	_____.	_____.
0614	SPV.0060 Special 21. Composite Light Poles 40-FT	35.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0616	SPV.0060 Special 22. Luminaire Arms Aluminum 6-FT	1.000 EACH	_____.	_____.
0618	SPV.0060 Special 23. Luminaire Arms Aluminum 8-FT	39.000 EACH	_____.	_____.
0620	SPV.0060 Special 24. Luminaire Arms Aluminum 15-FT	12.000 EACH	_____.	_____.
0622	SPV.0060 Special 25. Luminaire LED	43.000 EACH	_____.	_____.
0624	SPV.0060 Special 26. Luminaire LED RAB	13.000 EACH	_____.	_____.
0626	SPV.0060 Special 27. Lighting Pull Box	48.000 EACH	_____.	_____.
0628	SPV.0060 Special 40. Removing Fire Hydrants	11.000 EACH	_____.	_____.
0630	SPV.0060 Special 41. Removing Valve, Valve Manholes, and Valve Boxes	13.000 EACH	_____.	_____.
0632	SPV.0060 Special 42. Install Gate Valve and Box 6-Inch	7.000 EACH	_____.	_____.
0634	SPV.0060 Special 43. Install Gate Valve and Box 8-Inch	12.000 EACH	_____.	_____.
0636	SPV.0060 Special 44. Install Gate Valve and Box 10-Inch	1.000 EACH	_____.	_____.
0638	SPV.0060 Special 45. Install Gate Valve and Box 12-Inch	14.000 EACH	_____.	_____.
0640	SPV.0060 Special 46. Install Fire Hydrant	7.000 EACH	_____.	_____.
0642	SPV.0060 Special 47. Install Water Service Corporation Stop & Curb Stop and Box 1 1/4-Inch	32.000 EACH	_____.	_____.



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0644	SPV.0060 Special 49. Connect to Existing Water Main	31.000 EACH	_____.	_____.
0646	SPV.0060 Special 50. Connect to Existing Water Service	32.000 EACH	_____.	_____.
0648	SPV.0060 Special 51. Adjusting Water Valve Box	7.000 EACH	_____.	_____.
0650	SPV.0060 Special 52. Adjusting Water Service Curb Stop	11.000 EACH	_____.	_____.
0652	SPV.0060 Special 60. Sanitary Manhole Casting Type J	39.000 EACH	_____.	_____.
0654	SPV.0060 Special 61. Sanitary Manhole Chimney Seal	3.000 EACH	_____.	_____.
0656	SPV.0060 Special 62. Remove Existing Sanitary Sewer Manhole	26.000 EACH	_____.	_____.
0658	SPV.0060 Special 63. Reconnect Sanitary Sewer Lateral	39.000 EACH	_____.	_____.
0660	SPV.0085 Special 01. Seeding Switchgrass	37.000 LB	_____.	_____.
0662	SPV.0090 Special 01. Concrete Curb and Gutter Integral 18-Inch Type D Special	17,380.000 LF	_____.	_____.
0664	SPV.0090 Special 02. Storm Sewer Pipe Concrete Horizontal Elliptical Class HE-III 72x113-Inch	57.000 LF	_____.	_____.
0666	SPV.0090 Special 03. Storm Sewer Pipe PVC 6-Inch	8.000 LF	_____.	_____.
0668	SPV.0090 Special 04. Storm Sewer Pipe PVC 12-Inch	36.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0670	SPV.0090 Special 05. Mini Storm 6-Inch	2,815.000 LF	_____.	_____.
0672	SPV.0090 Special 06. Mini Storm 8-Inch	15.000 LF	_____.	_____.
0674	SPV.0090 Special 07. Televising Sewers	10,035.000 LF	_____.	_____.
0676	SPV.0090 Special 08. Marking Crosswalk Epoxy Transverse Line 12-Inch	1,294.000 LF	_____.	_____.
0678	SPV.0090 Special 09. Remove and Reinstall Chain Link Fence	30.000 LF	_____.	_____.
0680	SPV.0090 Special 10. Fence Chain Link Polymer-Coated 6-Ft	125.000 LF	_____.	_____.
0682	SPV.0090 Special 11. Marking Line Yield Line Epoxy 18-Inch	110.000 LF	_____.	_____.
0684	SPV.0090 Special 40. Install Watermain Pipe 6-Inch	75.000 LF	_____.	_____.
0686	SPV.0090 Special 41. Install Watermain Pipe 8-Inch	1,118.000 LF	_____.	_____.
0688	SPV.0090 Special 42. Install Watermain Pipe 10-Inch	78.000 LF	_____.	_____.
0690	SPV.0090 Special 43. Install Watermain Pipe 12-Inch	3,835.000 LF	_____.	_____.
0692	SPV.0090 Special 44. Water Service Pipe 1 1/4-Inch	1,310.000 LF	_____.	_____.
0694	SPV.0090 Special 60. Furnishing and Installing Sanitary Sewer Pipe 8-inch	1,518.000 LF	_____.	_____.
0696	SPV.0090 Special 61. Furnishing and Installing Sanitary Sewer Pipe 12-Inch	193.000 LF	_____.	_____.



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0698	SPV.0090 Special 62. Furnishing and Installing Sanitary Sewer Pipe 21-Inch	598.000 LF	_____.	_____.
0700	SPV.0090 Special 63. Furnishing and Relaying Sanitary Sewer Pipe 8-inch	339.000 LF	_____.	_____.
0702	SPV.0090 Special 64. Furnishing and Relaying Sanitary Sewer Pipe 12-inch	225.000 LF	_____.	_____.
0704	SPV.0090 Special 65. Furnishing and Relaying Sanitary Sewer Pipe 15-inch	50.000 LF	_____.	_____.
0706	SPV.0090 Special 66. Furnishing and Relaying Sanitary Sewer Pipe 24-inch	55.000 LF	_____.	_____.
0708	SPV.0090 Special 67. Removing Existing Sanitary Sewer	1,268.000 LF	_____.	_____.
0710	SPV.0090 Special 68. Sanitary Lateral 6-Inch	1,117.000 LF	_____.	_____.
0712	SPV.0090 Special 69. Sanitary Lateral Risers	56.000 LF	_____.	_____.
0714	SPV.0090 Special 70. Abandoning Sanitary Sewer	1,042.000 LF	_____.	_____.
0716	SPV.0090 Special 71. Storm Sewer Pipe PVC 12- Inch Affixed to Existing Sewer	135.000 LF	_____.	_____.
0718	SPV.0105 Special 01. Grading and Shaping Emergency Vehicle Railroad Crossing	LS	LUMP SUM	_____.
0720	SPV.0105 Special 02. Construction Staking Emergency Vehicle Railroad Crossing	LS	LUMP SUM	_____.
0722	SPV.0105 Special 03. Construction Staking Trees and Landscaping Project 1500-37-74	LS	LUMP SUM	_____.
0724	SPV.0105 Special 04. Construction Staking Trees and Landscaping Project 4570-12-71	LS	LUMP SUM	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0726	SPV.0105 Special 05. Preservation of Existing Monuments Project 1500-37-74	LS	LUMP SUM	_____.
0728	SPV.0105 Special 06. Preservation of Existing Monuments Project 4570-12-71	LS	LUMP SUM	_____.
0730	SPV.0105 Special 07. Verify and Restoring of Existing Monuments Project 1500-37-74	LS	LUMP SUM	_____.
0732	SPV.0105 Special 08. Verify and Restoring of Existing Monuments Project 4570-12-71	LS	LUMP SUM	_____.
0734	SPV.0105 Special 09. Salvage & Reinstall Rectangular Rapid Flashing Beacon (RRFB) System	LS	LUMP SUM	_____.
0736	SPV.0105 Special 10. Grading and Shaping Outfall Dissipator	LS	LUMP SUM	_____.
0738	SPV.0105 Special 30. Remove Traffic Signals USH 10 & 11th Street	LS	LUMP SUM	_____.
0740	SPV.0105 Special 31. Remove Traffic Signals USH 10 & 8th Street	LS	LUMP SUM	_____.
0742	SPV.0105 Special 32. Remove Loop Detector Wire and Lead-In Cable USH 10 & 11th Street	LS	LUMP SUM	_____.
0744	SPV.0105 Special 33. Remove Loop Detector Wire and Lead-In Cable USH 10 & 8th Street	LS	LUMP SUM	_____.
0746	SPV.0105 Special 34. Traffic Signal Cabinet & Controller Fully Actuated 8 Phase USH 10 & 11th St	LS	LUMP SUM	_____.
0748	SPV.0105 Special 35. Traffic Signal Cabinet & Controller Fully Actuated 8 Phase USH 10 & 8th St	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Proposal ID: 20190312064 Project(s): 1500-37-74, 1500-37-75, 4570-12-71, 4570-12-72

Federal ID(s): WISC 2018472, N/A, N/A, WISC 2019210

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0750	SPV.0105 Special 40. Water Main Trench Backfill Testing Project 1500-37-75	LS	LUMP SUM	_____.
0752	SPV.0105 Special 41. Water Main Trench Backfill Testing Project 4570-12-72	LS	LUMP SUM	_____.
0754	SPV.0105 Special 42. Abandoning Water Main and Appurtenances, Project 1500-37-75	LS	LUMP SUM	_____.
0756	SPV.0105 Special 43. Abandoning Water Main and Appurtenances, Project 4570-12-72	LS	LUMP SUM	_____.
0758	SPV.0105 Special 60. Sanitary Sewer Trench Backfill Testing Project 1500-37-75	LS	LUMP SUM	_____.
0760	SPV.0105 Special 61. Sanitary Sewer Trench Backfill Testing Project 4570-12-72	LS	LUMP SUM	_____.
0762	SPV.0165 Special 40. Trench Insulation 4-Inch	448.000 SF	_____.	_____.
0764	SPV.0180 Special 01. Salvaging and Replacing Concrete Riprap	60.000 SY	_____.	_____.
0766	SPV.0180 Special 02. Shredded Hardwood Bark Mulch	400.000 SY	_____.	_____.
0768	SPV.0195 Special 40. Imported Water Main Trench Backfill	4,000.000 TON	_____.	_____.
0770	SPV.0195 Special 60. Imported Sanitary Sewer Trench Backfill	2,900.000 TON	_____.	_____.
0772	SPV.0195 Special 61. Sanitary Sewer Trench Stabilization	260.000 TON	_____.	_____.
0774	SPV.0200 Special 60. Sanitary Manhole 4-Foot	321.500 VF	_____.	_____.



Proposal Schedule of Items

Page 27 of 27

Proposal ID: 20190312064 **Project(s):** 1500-37-74, 1500-37-75, 4570-12-71, 4570-12-72**Federal ID(s):** WISC 2018472, N/A, N/A, WISC 2019210**SECTION:** 0001

Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0776	SPV.0200 Special 61. Reconstruct Sanitary Manhole	10.100 VF	_____.	_____.
0778	SPV.0200 Special 62. Drop Manhole	86.000 VF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

PLEASE ATTACH SCHEDULE OF ITEMS HERE



Wisconsin Department of Transportation

March 4, 2019

**Division of Transportation Systems
Development**

Bureau of Project Development
4802 Sheboygan Avenue, Rm 601
P O Box 7916
Madison, WI 53707-7916

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

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of March 12, 2019

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 01, 02, 04-08, 10 – 13, 15 – 18, 20, 22 – 25, 27, 30, 33, 35 – 42, 45, 48 – 53, 55, 56, 58, 61, 62, and 64; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in proposals 20, 50, and 64; and WI 15 Heavy Davis Bacon Prevailing Wage Rates that are included in proposals 05, 06, 11, 22, 24, and 41. These wage rates are effective for all proposals they are included in in the March 12, 2019 letting. The updated wage rates are dated February 22, 2019 and are effective on or after March 4, 2019.

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

General Decision Number: WI190010 02/22/2019 WI10

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018		

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018		

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

 * BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

 BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
 PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

 BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

 CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

 CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
 BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
 CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
 area bordering Michigan State Line), FOND DU LAC, FOREST,
 GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
 JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
 MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,
 MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.
 of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,
 PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN,
 ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS,
 WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
 COUNTIES

	Rates	Fringes
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CARPENTER

CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
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Carpenters

Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
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CARPENTER.....	\$ 35.78	22.11
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CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
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CARPENTER.....	\$ 36.15	20.43
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CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
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PILEDRIIVERMAN

Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer Installer/Technician.....	\$ 26.25	13.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 32.38	18.63
Electrical contracts under \$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018		

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

* ELEC0430-002 01/01/2019		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.59

ELEC0494-005 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018		

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2018

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

Rates	Fringes
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Electricians:.....\$ 34.15 19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/04/2018

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	22.10
Group 2.....	\$ 40.22	22.10
Group 3.....	\$ 39.72	22.10
Group 4.....	\$ 39.46	22.10
Group 5.....	\$ 39.17	22.10
Group 6.....	\$ 33.27	22.10

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" protection - \$3.00 per hour
EPA Level "B" protection - \$2.00 per hour
EPA Level "C" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer;

bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

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.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LAB00113-002 06/04/2018

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.88	21.76

Group 2.....	\$ 28.03	21.76
Group 3.....	\$ 28.23	21.76
Group 4.....	\$ 28.38	21.76
Group 5.....	\$ 28.53	21.76
Group 6.....	\$ 24.37	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LAB00113-003 06/04/2018

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.13	21.76
Group 2.....	\$ 27.23	21.76
Group 3.....	\$ 27.28	21.76
Group 4.....	\$ 27.48	21.76
Group 5.....	\$ 27.33	21.76
Group 6.....	\$ 24.22	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LAB00113-011 06/04/2018

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.94	21.76
Group 2.....	\$ 27.09	21.76
Group 3.....	\$ 27.29	21.76
Group 4.....	\$ 27.26	21.76
Group 5.....	\$ 27.59	21.76
Group 6.....	\$ 24.08	21.76

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LAB00140-002 06/04/2018

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT,
CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,
DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA,
JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE,

OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE,
 RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST.
 CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN,
 WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.80	17.20
Group 2.....	\$ 31.90	17.20
Group 3.....	\$ 31.95	17.20
Group 4.....	\$ 32.15	17.20
Group 5.....	\$ 32.00	17.20
Group 6.....	\$ 28.43	17.20

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
 Demolition and Wrecking Laborer; Guard Rail, Fence, and
 Bridge Builder; Landscaper; Multiplate Culvert Assembler;
 Stone Handler; Bituminous Worker (Shoveler, Loader, and
 Utility Man); Batch Truck Dumper or Cement Handler;
 Bituminous Worker (Dumper, Ironer, Smoother and Tamper);
 Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
 (Pavement); Vibrator or Tamper Operator (Mechanical Hand
 Operated); Chain Saw Operator, Demolition Burning Torch
 Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
 (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

 LAB00464-003 06/04/2018

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.08	17..20
Group 2.....	\$ 32.18	17..20
Group 3.....	\$ 32.23	17..20
Group 4.....	\$ 32.43	17..20
Group 5.....	\$ 32.28	17..20
Group 6.....	\$ 28.43	17..20

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;

Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2018		

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017		

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 28.25	17.72
PREMIUM PAY:		
Structural Steel, Spray, Bridges = \$1.00 additional per		
hour.		

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017		

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....\$ 16.52 3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1,

2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: WI190008 02/22/2019 WI8

Superseded General Decision Number: WI20180008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018		

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 38.03	22.55
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BRWI0009-001 06/01/2018

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

* BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0013-002 06/01/2018

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0021-002 06/01/2018

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.24	22.15

BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys

35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016		

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016		

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016		

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018		

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

Rates	Fringes
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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 06/01/2016

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 29.98	21.53
Zone B.....	\$ 29.98	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE
(East of a line 6 miles West of the West boundary of Oconto
County), SHAWANO (Except Area North of Townships of Aniwa and

Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018		

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016		

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018		

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

* ELEC0430-002 01/01/2019		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.59

ELEC0494-005 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0577-003 06/01/2018		

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ENGI0139-003 06/04/2018		

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	21.60
Group 2.....	\$ 39.47	21.60

Group 3.....	\$ 38.17	21.60
Group 4.....	\$ 37.64	21.60
Group 5.....	\$ 35.57	21.60
Group 6.....	\$ 34.04	21.60

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour

EPA Level "B" Protection: \$2.00 per hour

EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

 ENGI0139-007 06/04/2018

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.19	21.65
Group 2.....	\$ 39.41	21.65
Group 3.....	\$ 38.46	21.65
Group 4.....	\$ 37.41	21.65
Group 5.....	\$ 36.01	21.65

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 and Winch 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 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

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.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LAB00113-004 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 15.11	20.65
Group 2.....	\$ 17.38	20.65
Group 3.....	\$ 20.92	20.65
Group 4.....	\$ 30.29	20.65
Group 5.....	\$ 30.43	20.65
Group 6.....	\$ 30.49	20.65
Group 7.....	\$ 32.70	20.65
Group 8.....	\$ 35.52	20.65
Group 9.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc;
Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner;
Pipe Layer; Rock Driller and Joint Man; Timber Man and
Concrete Brusher; Bracer in Trench Behind Machine & Tight
Sheeting; Concrete Formsetter and Shoveler; Jackhammer
Operator

GROUP 9: Blaster

LAB00113-005 06/04/2018

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 21.78	20.65
Group 2.....	\$ 27.71	20.65
Group 3.....	\$ 30.27	20.65
Group 4.....	\$ 32.04	20.65

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30
lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawyer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LAB00113-008 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 30.49	20.65
Group 4.....	\$ 32.70	20.65
Group 5.....	\$ 32.84	20.65
Group 6.....	\$ 35.52	20.65
Group 7.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

* LAB00113-009 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 33.24	20.65
Group 4.....	\$ 34.04	20.65
Group 5.....	\$ 34.16	20.65
Group 6.....	\$ 36.86	20.65
Group 7.....	\$ 37.48	20.65

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add \$2.00 to all classifications

*Compressed Air over 30 lbs add \$3.00 to all classifications

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder & Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pielayer and Joint Man; Bracerman; Nozzle Man on Gunite; Timber Man; Concrete Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add \$0.15 per hour.

LABO0140-005 06/04/2018

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMPPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1.....	\$ 27.41	17.20

Group 2.....	\$ 29.26	17.20
Group 3.....	\$ 29.46	17.20
Group 4.....	\$ 30.21	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00,
15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form
Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB00464-002 06/04/2018

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.31	17.20
Group 2.....	\$ 29.51	17.20
Group 3.....	\$ 29.71	17.20
Group 4.....	\$ 30.46	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add
\$1.00, 15- 30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete
Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB01091-010 06/04/2018

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 27.10	17.20
Group 2.....	\$ 29.16	17.20
Group 3.....	\$ 29.36	17.20
Group 4.....	\$ 30.11	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:

0 - 15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawyer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,

PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the

classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material,

etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: WI190015 02/22/2019 WI15

Superseded General Decision Number: WI20180015

State: Wisconsin

Construction Type: Heavy

Counties: Wisconsin Statewide.

HEAVY CONSTRUCTION PROJECTS (Excluding Tunnel, Sewer, and Water Lines).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019

BOIL0107-001 01/01/2017

	Rates	Fringes
BOILERMAKER		
Boilermaker.....	\$ 35.65	29.89
Small Boiler Repair (under		
25,000 lbs/hr).....	\$ 26.91	16.00

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018		

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018		

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018		

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

BRWI0009-001 06/01/2018		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

* BRWI0011-002 06/01/2018		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0013-002 06/01/2018		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

BRWI0019-002 06/01/2018		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0021-002 06/01/2018		

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.24	22.15

BRWI0034-002 06/01/2018		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

Rates	Fringes
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CARPENTER.....	\$ 35.78	22.11
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CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
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 06/01/2016

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 29.98	21.53
Zone B.....	\$ 29.98	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes
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Teledata System Installer

Installer/Technician.....\$ 26.25	13.92
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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 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		

\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

* ELEC0430-002 01/01/2019

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.59

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2018

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment		

Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

 ENGI0139-001 06/01/2018

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA
 COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 45.61	21.40
Group 2.....	\$ 45.11	21.40
Group 3.....	\$ 44.61	21.40
Group 4.....	\$ 43.92	21.40
Group 5.....	\$ 41.14	21.40
Group 6.....	\$ 35.99	21.40

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, Pedestal Tower Cranes and Derricks with or w/o attachments with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Self-Erecting Tower Cranes over 4000 lbs lifting capacity; All Cranes with Boom Dollies; Boring Machines (directional); Master Mechanic. \$0.50 additional per hour per 100 tons or 100 ft of boom over 200 ft or lifting capacity of crane over 200 tons to a maximum of 300 tons or 300 ft. Thereafter an increase of \$0.01 per ft or ton, whichever is greater.

GROUP 2: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; or Cranes, Tower Cranes Portable Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads and/or jib lengths measuring 175 feet or less; Backhoes (excavators) 130,000 lbs and over; Caisson Rigs; Pile Drivers; Boring Machines (vertical or horizontal), Versi-Lift, Tri-Lift, Gantry 20,000 lbs & over.

GROUP 3: Backhoe (excavator) under 130,000 lbs; Self-erecting Tower Crane 4000 lbs & under lifting capacity; Traveling Crane (bridge type); Skid Rigs; Dredge Operator; Mechanic; Concrete Paver (over 27E); Concrete Spreader and Distributor; Forklift/ Telehandler (machinery- moving / steel erection); Hydro Blaster, 10,000 psi and over

GROUP 4: Material Hoists; Stack Hoists; Hydraulic Backhoe

(tractor or truck mounted); Hydraulic Crane, 5 tons or under (tractor or truck mounted); Hoist (tuggers 5 tons & over); Hydro-Excavators/Daylighters; Concrete Pumps Rotec type Conveyors; Tractor/Bulldozer/End Loader (over 40 hp); Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Rotary Drill Operator and Blaster; Percussion Drill Operator; Air Track Drill and/or Hammers; Gantry (under 20,000 lbs); Trencher (wheel type or chain type having 8 inch or larger bucket); Milling Machine; Off-Road Material Haulers.

GROUP 5: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machines (road type); Rubber Tired Roller; Concrete Batch Hopper; Concrete Conveyor Systems; Grout Pumps; Concrete Mixers (14S or over); Screw Type Pumps and Gypsum Pumps; Tractor, Bulldozer, End Loader (under 40 hp); Trencher (chain type, bucket under 8 inch); Industrial Locomotives; Rollers under 5 tons; Stump Grinder/Chipper (Large); Timber Equipment; Firemen (pile drivers and derricks); Personnel Hoist, Telehandler over 8000 lbs; Robotic Tool Carrier with or without attachments

GROUP 6: Tampers - Compactors (riding type); Assistant Engineer; A-Frames and Winch Trucks; Concrete Auto Breaker; Hydrohammers (small); Brooms and Sweepers; Hoist (tuggers under 5 tons); Boats (Tug, Safety, Work Barges, Launch); Shouldering Machine Operator; Prestress Machines; Screed Operator; Stone Crushers and Screening Plants; Screed Operators (milling machine), Farm or Industrial Tractor Mounted Equipment; Post Hole Digger; Fireman (asphalt plants); Air Compressors over 400 CFM; Generators, over 150 KW; Augers (vertical and horizontal); Air, Electric, Hydraulic Jacks (slipform); Skid Steer Loaders (with or without attachments); Boiler Operators (temporary heat); Refrigeration Plant/Freeze Machines; Power Pack Vibratory/Ultra Sound Drivers and Extractors; Welding Machines; Heaters (mechanical); Pumps; Winches (small electric); Oiler and Greaser; Rotary Drill Tender; Conveyor; Forklifts/Telehandler 8000 lbs & under; Elevators: Automatic Hoists; Pumps (well points); Combination Small Equipment Operators

ENGI0139-003 06/04/2018

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	21.60
Group 2.....	\$ 39.47	21.60
Group 3.....	\$ 38.17	21.60
Group 4.....	\$ 37.64	21.60
Group 5.....	\$ 35.57	21.60
Group 6.....	\$ 34.04	21.60

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 130,000 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or

without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

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.....	\$ 34.50	23.82

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,

PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017		

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LABO0113-002 06/04/2018		

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.88	21.76
Group 2.....	\$ 28.03	21.76
Group 3.....	\$ 28.23	21.76
Group 4.....	\$ 28.38	21.76
Group 5.....	\$ 28.53	21.76
Group 6.....	\$ 24.37	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/04/2018

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.13	21.76
Group 2.....	\$ 27.23	21.76
Group 3.....	\$ 27.28	21.76
Group 4.....	\$ 27.48	21.76
Group 5.....	\$ 27.33	21.76
Group 6.....	\$ 24.22	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/04/2018

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.94	21.76
Group 2.....	\$ 27.09	21.76
Group 3.....	\$ 27.29	21.76
Group 4.....	\$ 27.26	21.76
Group 5.....	\$ 27.59	21.76
Group 6.....	\$ 24.08	21.76

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler;

Bituminous worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LAB00140-002 06/04/2018

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT,
CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,
DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA,
JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE,
OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE,
RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST.
CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN,
WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.80	17.20
Group 2.....	\$ 31.90	17.20
Group 3.....	\$ 31.95	17.20
Group 4.....	\$ 32.15	17.20
Group 5.....	\$ 32.00	17.20
Group 6.....	\$ 28.43	17.20

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator, Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter

(Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LAB00464-003 06/04/2018

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.08	17..20
Group 2.....	\$ 32.18	17..20
Group 3.....	\$ 32.23	17..20
Group 4.....	\$ 32.43	17..20
Group 5.....	\$ 32.28	17..20
Group 6.....	\$ 28.43	17..20

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27

Repaint:

Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
--	-------	---------

Painters:

Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
--	-------	---------

PAINTER.....	\$ 24.11	12.15
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PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
--	-------	---------

PAINTER.....	\$ 22.03	12.45
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PAIN0781-002 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
--	-------	---------

Painters:

Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
--	-------	---------

PAINTER

Brush.....	\$ 28.25	17.72
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PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per

hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,

VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

PLUM0011-003 05/07/2018

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, SAWYER, AND WASHBURN
COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 40.63	20.72

PLUM0075-002 06/01/2016

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 40.27	21.47

PLUM0075-004 06/01/2016

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, AND ROCK
COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 40.52	21.47

PLUM0075-009 06/01/2016

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 38.82	20.12

PLUM0111-007 05/28/2018

MARINETTE COUNTY (Niagara only)

	Rates	Fringes
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PLUMBER/PIPEFITTER.....	\$ 33.33	24.48
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PLUM0118-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
Plumber and Steamfitter.....	\$ 44.95	20.95

PLUM0400-003 06/04/2018

ADAMS, BROWN, CALUMET, DODGE (except Watertown), DOOR, FOND DU LAC, GREEN LAKE, KEWAUNEE, MANITOWOC, MARINETTE (except Niagara), MENOMINEE, OCONTO, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 36.74	19.06

PLUM0434-002 06/03/2018

BARON, BUFFALO, CHIPPEWA, CLARK, CRAWFORD, DUNN, EAU CLAIRE, FLORENCE, FOREST, GRANT, JACKSON, JUNEAU, LA CROSSE, LANGLADE, LINCOLN, MARATHON, MONROE, ONEIDA, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RUSK, ST. CROIX, TAYLOR, TREMPLEAU, VERNON, VILAS, AND WOOD COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 40.15	18.57

PLUM0601-003 06/04/2018

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, MILWAUKEE, OZAUKEE, ROCK, WASHINGTON AND WAUKESHA COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 45.52	24.54

PLUM0601-009 06/04/2017

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 47.08	20.89

TEAM0039-002 06/01/2018

	Rates	Fringes
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TRUCK DRIVER

1 & 2 Axle Trucks.....	\$ 28.12	21.20
3 or more axles; Euclids or Dumptor, Articulated Truck, Mechanic.....	\$ 28.27	21.20

SUWI2011-001 11/16/2011

Rates	Fringes
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WELL DRILLER.....\$ 16.52

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.

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION



Wisconsin Department of Transportation

March 6, 2019

Division of Transportation Systems Development

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

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

NOTICE TO ALL CONTRACTORS:

Proposal #64: 1500-37-74, WISC 2019 210
Waldo Blvd, City of Manitowoc
14th Street – 8th Street
USH 10
Manitowoc County

1500-37-75
Waldo Blvd, City of Manitowoc
Fleetwood Drive – 8th Street
USH 10
Manitowoc County

4570-12-71, WISC 2018 472
Waldo Blvd, City of Manitowoc
8th Street – Maritime Drive
STH 42
Manitowoc County

4570-12-72
Waldo Blvd, City of Manitowoc
8th Street – Maritime Drive
STH 42
Manitowoc County

Letting of March 12, 2019

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
7	Utilities
8	Municipality Acceptance of Sanitary Sewer and Water Main Construction
158	Sanitary Manhole 4-Foot, Item SPV.0200.60

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
144	Permanent Signing (Added signs)

Other

Revise the contract time for completion from a completion date of November 1, 2019 to a completion date of November 8, 2019.

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

1500-37-74, 1500-37-75, 4570-12-71, 4570-12-72

March 6, 2019

Special Provisions

7. Utilities

*Under Project ID 1500-37-74 replace entire section titled **Wisconsin Public Service (gas/petroleum)** with the following:*

Wisconsin Public Service (gas/petroleum) has underground facilities throughout the project limits. Prior to construction (Spring/Summer/Fall 2018) WPS will discontinue the existing facilities in place and place new gas facilities, typically at a depth of 3-ft to 5-ft, in the following general locations along USH 10/Waldo Blvd.

- Sta. 93+80 to Sta. 152+25 below the south sidewalk. Gas main facilities will cross USH 10 at the following approximate locations: Sta. 134+35, Sta. 137+90, and Sta. 148+60. Side road main crossings will typically follow the USH 10 sidewalk alignment, except where the gas main facilities will cross outside of the construction limits at the following side roads: N. 11th St. and N. 8th St.
- Sta. 137+90 to Sta. 141+25 and Sta. 148+60 to Sta. 151+25 below the north sidewalk.

During relocations, Wisconsin Public Service identified several areas (listed below) where gas facilities could not be installed at planned depths due to conflicts with existing sewer and/or existing utilities. Contact Dan Conner at (920) 657-1862 (telephone) or (920) 655-6042 (mobile) two working days prior work in these areas. Wisconsin Public Service anticipates one working day per location will be required to relocate facilities.

- 134+50 – 4-inch plastic main crossing USH 10 west of Menasha Avenue (current depth<4-feet)
- 145+25 – 8-inch plastic main crossing N. 10th St. south of USH 10 (current depth<3.5-feet)
- 148+50 – 8-inch plastic main crossing N. 9th St. south of USH 10 (current depth<3.5')

The field contact is Mike Lowther, 933 S. Wildwood Avenue, Sheboygan, WI 53081; Mobile Telephone: (920) 849-7903.

*Under Project ID 4570-12-71 replace entire section titled **Wisconsin Public Service (gas/petroleum)** with the following:*

Wisconsin Public Service (gas/petroleum) has underground facilities throughout the project limits. Prior to construction (Spring/Summer/Fall 2018) WPS will discontinue the existing facilities in place and place new gas facilities, typically at a depth of 3-ft to 5-ft, in the following general locations along STH 42/Waldo Blvd.

- Sta. 152+25 to Sta. 186+50 along the south side of the roadway. A main crossing will be located at Sta. 160+15. Side road main crossings will be within the construction limits, except at N. 6th St. where the crossing will be outside of the construction limits.
- Sta. 152+15 to Sta. 156+00 below the north sidewalk. The main crossing of Lincoln Blvd. will cross outside of the construction limits.

During relocations, Wisconsin Public Service identified several areas (listed below) where gas facilities could not be installed at planned depths due to conflicts with existing sewer and/or existing utilities. Contact Dan Conner at (920) 657-1862 (telephone) or (920) 655-6042 (mobile) two working days prior work in these areas. Wisconsin Public Service anticipates one working day per location will be required to relocate facilities.

- 167+50 – 1-inch plastic service crossing STH 42 to property address 320 Waldo Blvd. (current depth<3-feet)
- 168+50 – 1-inch plastic service crossing STH 42 to property address 310 Waldo Blvd. (current depth<3-feet)

The field contact is Mike Lowther, 933 S. Wildwood Avenue, Sheboygan, WI 53081; Mobile Telephone: (920) 849-7903.

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

Replace entire article language with the following:

Both the department and City of Manitowoc (Sanitary Sewer only) and Manitowoc Public Utilities (Water Main only) personnel will inspect construction of sanitary sewer and water main under this contract. However, construction staking, and acceptance of the sanitary sewer and water main construction will be by the City of Manitowoc (Sanitary Sewer), and Manitowoc Public Utilities (Water Main).

158. Sanitary Manhole 4-Foot, Item SPV.0200.60.

Under section C Construction replace first sentence of the first paragraph with the following:

Excavate a minimum area of 2 feet from the outside walls of the manhole structure to install manhole.

Plan Sheets

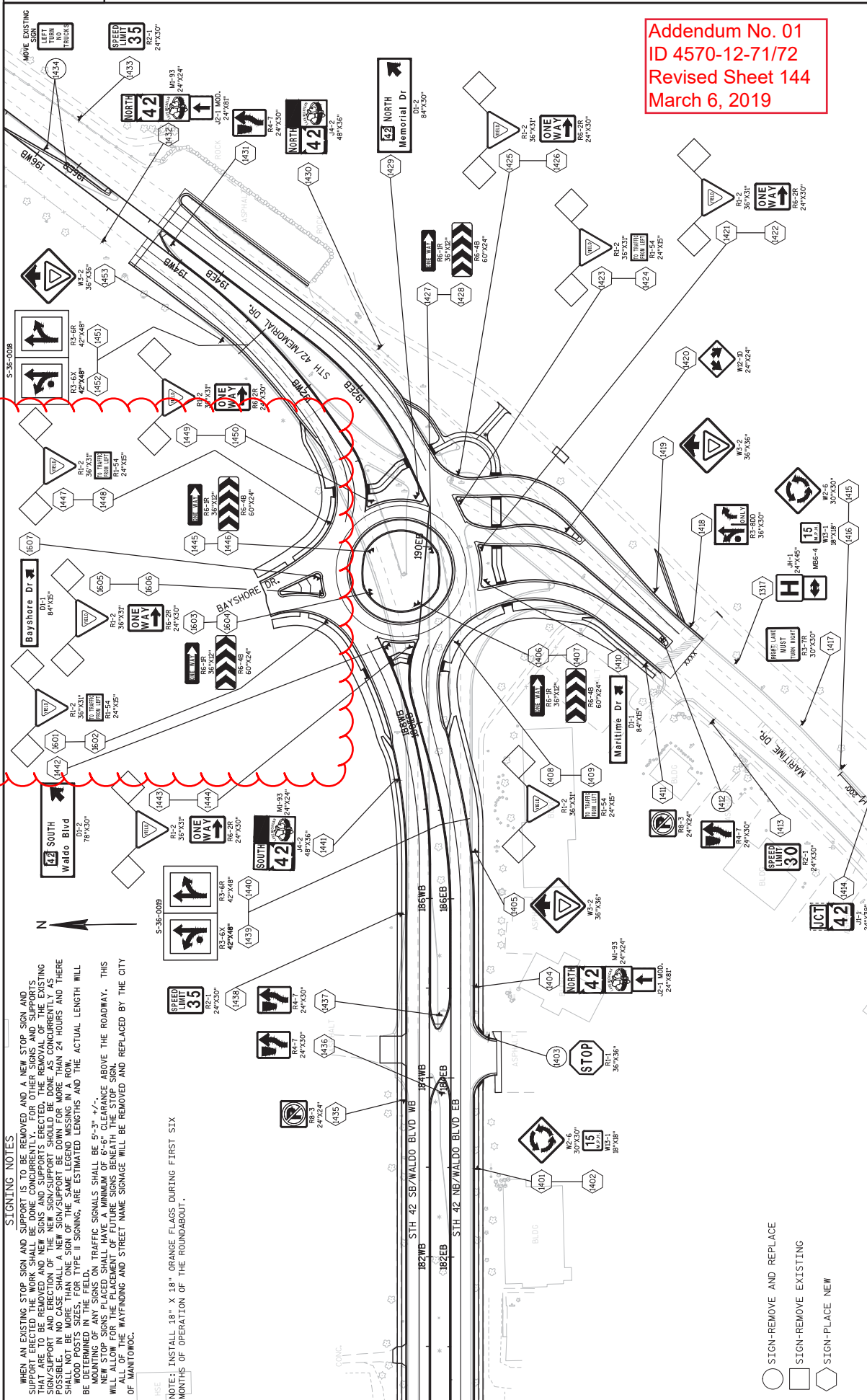
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 144.

END OF ADDENDUM

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. THE NEW SIGN/SUPPORT SHALL BE PLACED IN THE SAME LOCATION AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW. THE NEW SIGN/SUPPORT SHALL BE THE SAME SIZE AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME COLOR AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME MOUNTING AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME POST AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME LEGEND AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME MESSAGE AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME SIZE AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME COLOR AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME MOUNTING AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME POST AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME LEGEND AS THE EXISTING SIGN/SUPPORT. THE NEW SIGN/SUPPORT SHALL BE THE SAME MESSAGE AS THE EXISTING SIGN/SUPPORT.

NOTE: INSTALL 18" X 18" ORANGE FLAGS DURING FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT.



Addendum No. 01
ID 4570-12-71/72
Revised Sheet 144
March 6, 2019

- STGN-REMOVE AND REPLACE
- STGN-REMOVE EXISTING
- ◻ STGN-PLACE NEW

