

# HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation  
 DT1502 01/2020 s.66.0901(7) Wis. Stats

Proposal Number: **019**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Milwaukee	2135-04-71	WISC 2023224	C Wauwatosa W North Avenue; Mayfair Road To Met-To-Wee Ln	LOC STR
Milwaukee	2135-04-72	N/A	C Wauwatosa W North Avenue; Mayfair Road To Met-To-Wee Ln	LOC STR

## ADDENDUM REQUIRED ATTACHED AT BACK

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

Proposal Guaranty Required: \$310,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: February 14, 2023 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code  <h3 style="margin: 0;">SAMPLE</h3> <h3 style="margin: 0;">NOT FOR BIDDING PURPOSES</h3>
Contract Completion Time June 14, 2024	This contract is exempt from federal oversight.
Assigned Disadvantaged Business Enterprise Goal <span style="float: right;">6%</span>	

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

<b>Type of Work:</b>	<b>For Department Use Only</b>
Mill, Grade, Sanitary Sewer, Water Main, Storm Sewer, Culvert Pipe, Base, Concrete Pavement, Asphalt Pavement, Curb & Gutter, Sidewalk, Signing, Signals, Lighting, Landscaping, Pavement Marking, Wall Modular Block Gravity R-40-733.	
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH  
PROPOSAL GUARANTY HERE**

## 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.

## 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://wisconsin.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](http://www.bidx.com) web site or by contacting:

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

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:

<https://wisconsin.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:
  4. Have a properly executed annual bid bond on file with the department.
  5. 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://wisconsin.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 envelope 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.

#### **B 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)

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

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

**NOTARY FOR PRINCIPAL**

**NOTARY FOR SURETY**

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

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

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

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

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

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

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

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

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

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

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

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

**Notary Seal**

**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)





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

### Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.
4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.
7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR- 1273 - "Required Contract Provisions Federal Aid Construction Contracts," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

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

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

## Special Provisions

### Table of Contents

Article	Description	Page #
1.	General.....	5
2.	Scope of Work.....	5
3.	Prosecution and Progress.....	5
4.	Traffic.....	6
5.	Holiday and Special Event Work Restrictions.....	8
6.	Utilities.....	9
7.	Railroad Insurance and Coordination - Union Pacific Railroad Company.....	11
8.	Hauling Restrictions.....	12
9.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.....	13
10.	Information to Bidders, WPDES General Construction Storm Water Discharge Permit.....	13
11.	Erosion Control.....	13
12.	Notice to Contractor – Contamination Beyond Construction Limits.....	14
13.	Notice to Contractor – Traffic Signal and Street Lighting Lead Time.....	15
14.	Notice to Contractor – Airport Operating Restrictions.....	15
15.	Notice to Contractor – WisDOT Owned Facilities.....	15
16.	Milwaukee County Transit System Coordination.....	15
17.	City of Wauwatosa – Lighting.....	16
18.	Municipality Acceptance of Sanitary Sewer and Water Main Construction.....	16
19.	Referenced Construction Specifications.....	16
20.	City Furnished Water Main Materials.....	17
21.	Tree Protection.....	18
22.	Weekly Coordination Meeting.....	18
23.	Coordination with Businesses and Residents.....	18
24.	Public Convenience and Safety.....	18
25.	Removing Traffic Signals, W. North Avenue and N. 104 <sup>th</sup> St, Item 204.9060.S.01.....	19
26.	Removing Lighting System, Item 204.9060.S.03.....	19
27.	Removing Retaining Wall, Item 204.9090.S.01.....	20
28.	QMP HMA Pavement Nuclear Density.....	20
29.	Precast Concrete Box Culvert, 7 FT x 6 FT, Item 504.2000.S.01.....	23
30.	Concrete Staining R-40-733, Item 517.1010.S.....	24
31.	Adjusting Manhole Covers, Item 611.8110.....	26
32.	Cover Plates Temporary, Item 611.8120.S.....	26
33.	Tree Planting.....	26
34.	Landscape Planting Surveillance and Care Cycles.....	28
35.	Moving Signs Type II, Item 638.2102.....	28
36.	Removing Signs Type II, Item 638.2602.....	28
37.	Electrical Wiring.....	28

38.	Electrical Service Meter Pedestal (Intersection), Item 656.0201.....	28
39.	Traffic Signals General.....	29
40.	Street Lighting General.....	29
41.	Lamp Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.....	31
42.	Crack and Damage Survey, Item 999.1501.S.....	32
43.	Remove, Salvage and Reinstall Wheel Stops, Item SPV.0060.01.....	33
44.	Inlet Covers Type SP, Item SPV.0060.02.....	34
45.	Manhole Covers Type J-SP, Item SPV.0060.03.....	34
46.	Catch Basins 2, Item SPV.0060.04; Inlets 2, Item SPV.0060.05.....	35
47.	Special Manhole Sta. 165+36, Item SPV.0060.06; Special Manhole Sta. 168+77, Item SPV.0060.07.....	35
48.	Temporary Pipe Connection 12-Inch, Item SPV.0060.08; Temporary Pipe Connection 15-Inch, Item SPV.0060.09; Temporary Pipe Connection 18-Inch, Item SPV.0060.10; Temporary Pipe Connection 54-Inch, Item SPV.0060.11; Temporary Pipe Connection 72-Inch, Item SPV.0060.12.....	36
49.	Resilient Wedge Gate Valve, 6-Inch, Item SPV.0060.13; Resilient Wedge Gate Valve, 8-Inch, Item SPV.0060.14; Resilient Wedge Gate Valve, 12-Inch, Item SPV.0060.15.....	36
50.	Butterfly Valve, 16-Inch, Item SPV.0060.16; Butterfly Valve, 20-Inch, Item SPV.0060.17; Butterfly Valve, 24-Inch, Item SPV.0060.18.....	38
51.	Fire Hydrant, Item SPV.0060.19; Rotated A.T. Fire Hydrant, Item SPV.0060.20.....	40
52.	Hydrant Removal, Item SPV.0060.21.....	42
53.	Cut-In Hydrant, Item SPV.0060.22.....	43
54.	Jacking Pit, Item SPV.0060.23; Receiving Pit, Item SPV.0060.24.....	44
55.	Water Main Connection, 6-inch, Item SPV.0060.25; Water Main Connection, 8-inch, Item SPV.0060.26; Water Main Connection, 12-inch, Item SPV.0060.27; Water Main Connection, 16- inch, Item SPV.0060.28; Water Main Connection, 20-inch, Item SPV.0060.29.....	45
56.	HWY 100 Water Main Removal & Reconnect, Item SPV.0060.30.....	46
57.	Temporary Water Main Connection, Item SPV.0060.31.....	47
58.	Water Lateral, 1-1/2-inch, Short (0ft-45ft), Item SPV.0060.32; Water Lateral, 1-1/2-inch, Long (45ft-90ft), Item SPV.0060.33; Water Lateral, 2-inch, Short (0ft-45ft), Item SPV.0060.34; Water Lateral, 2-inch, Long (45ft-90ft), Item SPV.0060.35.....	48
59.	Permanent Air Release Assembly, Item SPV.0060.36.....	52
60.	Valve Box Removal, Item SPV.0060.37.....	53
61.	Valve and Valve Manhole Removal, Item SPV.0060.38.....	53
62.	Water Main Abandonment, 6-inch, Item SPV.0060.39; Water Main Abandonment, 8-inch, Item SPV.0060.40; Water Main Abandonment, 12-inch, Item SPV.0060.41; Water Main Abandonment, 16-inch, Item SPV.0060.42; Water Main Abandonment, 20-inch, Item SPV.0060.43.....	54
63.	Pull Boxes, 17x30x18-Inch, Item SPV.0060.44.....	55
64.	Temporary Lighting, SPV.0060.45.....	56
65.	Lighting Control Cabinet Modified, Item SPV.0060.46.....	57
66.	28-Foot Aluminum Light Pole, SPV.0060.47.....	59
67.	LED Luminaire, SPV.0060.48; Glare Shield House Side, SPV.0060.49; Glare Shield Street Side, SPV.0060.50.....	59
68.	Rectangular Rapid Flashing Beacon System, 100 <sup>th</sup> Street Westbound, Item SPV.0060.51; Rectangular Rapid Flashing Beacon System, 100 <sup>th</sup> Street Median, Item SPV.0060.52; Rectangular Rapid Flashing Beacon System, 100 <sup>th</sup> Street Eastbound, Item SPV.0060.53.....	62
69.	APS Push Button System, 10 Buttons, W North Avenue and N 104 <sup>th</sup> Street, Item SPV.0060.54.....	65

70.	Battery Backup System, SPV.0060.55.....	66
71.	Vehicle Video Detection System, W North Avenue and N 104th Street, Item SPV.0060.56.....	73
72.	City Furnished Temporary EVP Equipment, W North Avenue and N 104 <sup>th</sup> Street, Item SPV.0060.57.....	75
73.	Remove and Reinstall EVP Equipment, W North Avenue and N 104 <sup>th</sup> Street, Item SPV.0060.58.....	76
74.	Round Steel Sign Post System, Item SPV.0060.59.....	77
75.	Temporary Video Detection, W North Avenue and N 104 <sup>th</sup> Street, Item SPV.0060.60.....	77
76.	Relocate Signal Pole Assembly, Item SPV.0060.61.....	78
77.	Relocate Monotube Assembly, Item SPV.0060.62.....	78
78.	Sanitary Sewer Lateral 6-Inch Riser 2 V.F. or Less, Item SPV.0060.63; Sanitary Sewer Lateral 6-Inch Riser 5 V.F. to 2.1 V.F., Item SPV.0060.64; Sanitary Sewer Lateral 6-Inch Riser 7-feet to 5.1 V.F., Item SPV.0060.65.....	79
79.	Sanitary Manhole Frame and Cover, Item SPV.0060.66.....	80
80.	Abandoning Sanitary Manhole, Item SPV.0060.67.....	81
81.	Tree Cell Planting System, Location No 1, Item SPV.0060.68; Tree Cell Planting System, Location No 2, Item SPV.0060.69; Tree Cell Planting System, Location No 3, Item SPV.0060.70; Tree Cell Planting System, Location No 4, Item SPV.0060.71; Tree Cell Planting System, Location No 5, Item SPV.0060.72; Tree Cell Planting System, Location No 6, Item SPV.0060.73.....	82
82.	Section Corner Monument, Item SPV.0060.74.....	93
83.	Utility Line Opening, Item SPV.0060.75.....	93
84.	Decorative Fence, Item SPV.0090.01.....	94
85.	Turtle Fence, Item SPV.0090.02.....	96
86.	6-Inch PVC Storm Sewer, Item SPV.0090.03.....	96
87.	Marking Crosswalk Epoxy Block Style 12-Inch, Item SPV.0090.04.....	97
88.	Water Main, 6-inch, Item SPV.0090.05; Water Main, 8-inch, Item SPV.0090.06; Water Main, 12-inch, Item SPV.0090.07; Water Main, 16-inch, Item SPV.0090.08; Water Main, 20-inch, Item SPV.0090.09; Water Main, 24-inch, Item SPV.0090.10.....	97
89.	Water Main, 20-inch in 36-inch Steel Casing, Item SPV.0090.11.....	103
90.	Water Lateral, 6-inch, Item SPV.0090.12; Water Lateral, 8-inch, Item SPV.0090.13; Water Lateral, 12-inch, Item SPV.0090.14.....	104
91.	Water Main Removal, 6-inch, Item SPV.0090.15; Water Main Removal, 8-inch, Item SPV.0090.16; Water Main Removal, 12-inch, Item SPV.0090.17; Water Main Removal, 16-inch, Item SPV.0090.18; Water Main Removal, 20-inch, Item SPV.0090.19; Water Main Removal, 16-inch in Steel Casing, Item SPV.0090.20.....	105
92.	Abandoning Water Main with Fill, 12-Inch, Item SPV.0090.21; Abandoning Water Main with Fill, 16-Inch, Item SPV.0090.22.....	105
93.	Sanitary Sewer 8-Inch PVC, Item SPV.0090.23; Sanitary Sewer 12-Inch PVC, Item SPV.0090.24; Sanitary Sewer 15-Inch PVC, Item SPV.0090.25.....	106
94.	Sanitary Sewer 6-Inch Lateral - Granular Backfill, Item SPV.0090.26.....	107
95.	Abandoning Sanitary Sewer 6-Inch, Item SPV. 0090.27; Abandoning Sanitary Sewer 8-Inch, Item SPV. 0090.28; Abandoning Sanitary Sewer 10-Inch, Item SPV. 0090.29; Abandoning Sanitary Sewer 15-Inch, Item SPV. 0090.30.....	109
96.	Steel Pedestrian Railing at Sta 154+60, SPV. 0090.37.....	110
97.	Wall Modular Block Gravity R-40-733, Item SPV.0165.01.....	111
98.	Remove, Salvage and Reinstall Pavers, Item SPV.0165.02.....	115
99.	Remove, Salvage and Reinstall Landscaping Rocks, Item SPV.0165.03.....	116



100.	High Friction Green Surfacing, Item SPV.0165.04.....	116
101.	Permeable Pavers, Item SPV.0165.05.....	118
102.	Blended Topsoil, Item SPV.0180.01.....	120
103.	Crushed Stone No. 8, Item SPV.0195.01.....	122
104.	Sanitary Manhole 48-Inch, Item SPV.0200.01. ....	122
105.	Sanitary Manhole 48-Inch Outside Drop/s, Item SPV.0200.02. ....	123

## STSP'S Revised June 28, 2022

### SPECIAL PROVISIONS

#### 1. General.

Perform the work under this construction contract for Project 2135-04-71 and 2135-04-72, C Wauwatosa, W North Avenue, Mayfair Road to Met-To-Wee Ln, Loc Str, Milwaukee 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, 2023 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 (20220628)

#### 2. Scope of Work.

The work under this contract shall consist of removals, excavation common, base aggregate, breaker run, concrete pavement, HMA pavement, curb and gutter, sidewalk, curb ramps, storm sewer, sanitary sewer, water main, pavement marking, permanent signing, street lighting, traffic signals, landscaping, erosion control, traffic control, wall modular block gravity R-40-733, restoration 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 10 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 10 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.

#### **Interim Completion and Liquidated Damages – W. North Avenue: November 16, 2023**

Complete all contract work within the projects construction limits to reopen W. North Avenue to through traffic by November 16, 2023. This excludes materials associated with delayed deliveries, as well as final restoration and planting trees. All asphalt paving must be completed prior to November 1, 2023.

If the contractor fails to complete all contract work excluding monotube materials associated with delayed deliveries, within the W. North Avenue construction limits and open the roadway to through traffic by November 16, 2023, the department will assess the contractor \$2,175 in interim liquidated damages for each calendar day that the roadway remains closed after beyond 12:01 AM on November 17, 2023. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

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

Northern long-eared bats (NLEB) have the potential to inhabit the project limits because they roost in trees, bridges and culverts. 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).

Ensure all operators, employees, and subcontractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat.

Direct temporary lighting, if used, away from wooded areas during the bat active season April 1 to October 31, both dates inclusive.

The department has contracted with others to cut all required trees for this project prior to construction. Remove any downed trees and grub the stumps and any remaining vegetation within the identified grubbing limits.

If additional trees with a 3-inch or greater diameter at breast height (dbh) need to be removed, no tree 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 or visual emergence 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 approval letter for the ECIP.

#### **Blandings Turtle and Butler's Gartersnake**

Exclusion Fencing shall be installed at the eight quadrants of the Menomonee River bridges for avoidance/minimization of the Blandings Turtle and Butler's Gartersnake.

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

#### **4. Traffic.**

Perform all work according to the requirements of standard spec 643, as detailed in the Traffic Control Plans and as hereinafter described.

Designate an individual responsible for traffic control maintenance including access of local traffic, and 24-hour emergency traffic control repair. Provide the name and telephone number of this individual to the engineer.

Conduct operations in a manner that minimizes interference to traffic movements and access to adjacent business and residential properties within the construction work zone.

The parking and storage of construction vehicles, equipment and material shall be approved by the engineer and shall be restricted to the minimum required and the minimum time necessary at the work sites to prosecute the work. At such locations, the material and equipment involved shall not constitute a hazard to the traveling public.

The Milwaukee County Transit System (MCTS) has bus operations on W. North Avenue that will be impacted during construction. Refer to "Notice to Contractor – Milwaukee County Transit System" specification for MCTS coordination requirements.

Perform construction operations in stages as shown in the traffic control/construction staging plans unless modifications are approved in writing by the engineer.

The contractor shall maintain a minimum of one lane of traffic in each direction at all times for the duration of the project.

##### **Stage 1:**

Switch all traffic to the north side of the roadway between Mayfair Road and the Menomonee River and construct the south side of the roadway.

### **Stage 1B:**

Maintain all traffic on the north side of the roadway between Mayfair Road and N. 100th Street. Switch traffic to the south side of the road between N. 100th Street and the Menomonee River to allow to water main construction. Traffic between the Menomonee River and the Menomonee River Parkway will be one lane in each direction in the outside lane while the inside lanes are resurfaced. Traffic east of the Menomonee River Parkway will be one lane in each direction in the inside lane while the outside lanes are resurfaced.

### **Stage 1C:**

Maintain all traffic on the north side of the roadway between Mayfair Road and N. 100th Street. Switch traffic back to the north side of the road between N. 100th Street and the Menomonee River to finish construction of the south side of the roadway. Traffic between the Menomonee River and the Menomonee River Parkway will be one lane in each direction in the inside lane while the outside lanes are resurfaced. Traffic east of the Menomonee River Parkway will be one lane in each direction in the outside lane while the inside lanes are resurfaced.

### **Stage 2A:**

Between Mayfair Road and N. 106th Street, maintain the westbound through and right turn lanes in the same location as in Stage 1 at the intersection of Mayfair Road and cross over to the south side of the roadway at N. 106th Street. Shift eastbound traffic to the south side of the roadway and shift westbound left turn traffic to the south side of the roadway to allow room for the continuation of the watermain crossing of North Avenue near the Mayfair Road intersection. Between N. 106th Street and the Menomonee River shift all traffic to the south side of the roadway and construct the north side of the roadway.

### **Stage 2B:**

Between Mayfair Road and N. 106th Street, shift all traffic to the south side of the roadway. Between N. 106th Street and the Menomonee River maintain all traffic on the south side of the roadway and construct the north side of the roadway.

### **Stage 2C:**

Maintain all traffic on the south side of the roadway between Mayfair Road and the Menomonee River. Close the southbound right turn lanes on Mayfair Road to construct a receiving pit for the Jack and Bore of the watermain under Mayfair Road. Close the outside southbound through lane of Mayfair Road as needed when working adjacent to the through lane.

### **Stage 3:**

Switch all westbound traffic back to the north side of the roadway. Close the median lanes in each direction from Mayfair Road to the Menomonee River to finish construction of the median.

### **Stage 4:**

Close the outside lanes in each direction from Mayfair Road to the Menomonee River to finish construction of the outside terrace.

### **Pedestrian Access**

Maintain access to properties in the construction zone by keeping the sidewalk open while the roadway is being reconstructed. When portions of sidewalk are replaced, coordinate with the owner of the adjacent properties a time for closure or provide temporary access using ADA compatible devices and materials. Maintain pedestrian access to businesses throughout the work zone on existing sidewalk or other ADA compliant surfaces. Provide ADA compliant curb ramps and temporary pedestrian surfaces across work zone as detailed in the plans to maintain pedestrian access.

### **Emergency Vehicle Access**

Maintain emergency vehicular access at all times to roadways located within the project limits.

### Construction Contact Information

Provide City of Wauwatosa Police Department with a 24-hour emergency contact number for when traffic control maintenance is required.

### Local Vehicle Access

Close driveways for a maximum of 7 calendar days to construct new access approaches. Prior to removal or closing of driveway access, provide 48-hour notice to the occupant and owner of the premises.

### Business Access

Contact businesses which have entrances within the project limits seven calendar days prior to performing work which may affect the entrances. Confirm the closure with the property owner two days prior to use. If a business has two driveways, keep one open while constructing the other driveway. If a property has one driveway, construct one half at a time or coordinate closure with the property owner.

### Independence Day Parade

The City of Wauwatosa 2023 Independence Day Parade will be rerouted to avoid the W. North Avenue project limits. No coordination will be necessary for 2023.

### Wisconsin Lane Closure System Advance Notification

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

**TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION**

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

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

## 5. Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying W North Avenue 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 and special event periods:

- From noon Friday, May 26, 2023 to 6:00 AM Tuesday, May 30, 2023 for Memorial Day;
- From noon Friday, June 30, 2023 to 6:00 AM Wednesday, July 5, 2023 for Independence Day;
- From noon Friday, September 1, 2023 to 6:00 AM Tuesday, September 5, 2023 for Labor Day;
- From noon Friday, May 24, 2024 to 6:00 AM Tuesday, May 28, 2024 for Memorial Day.

stp-107-005 (20210113)

## 6. Utilities.

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

stp-107-066 (20080501)

There are underground and overhead utilities located within the project limits and there are known utility adjustments required for this construction project. Coordinate construction activities with a call to Digger's Hotline or a direct call to the utilities which have utilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearance from overhead facilities at all times.

Bidders are advised to contact each utility company listed in the plans prior to preparing their bids, to obtain current information on the status of existing and any new utility relocation work.

If a conflict with discontinued utility facilities is encountered, contact the appropriate utility owner/representative for instructions on proper removal and disposal of said facilities.

### ID 2135-04-71 / ID 2134-04-72

**AT&T Wisconsin** owns underground facilities in the westbound travel lanes of W North Avenue.

Prior to construction, AT&T Wisconsin will directionally bore a new conduit package adjacent to the existing line in the westbound travel lanes at a lower depth from Station 154+50 to 184+10.

During construction, 5 manhole frame and covers will be adjusted to final pavement elevations.

Work prior to construction will begin approximately December 1, 2022 and is estimated at 90 working days for relocation work.

Work during construction will be dependent on the roadway contractor's schedule and will take 1 working day per adjustment location. Contractor shall provide AT&T Wisconsin 7-day notice for adjustments.

**City of Wauwatosa – Fiber Optic** owns underground facilities located within the center median of W North Avenue within the project limits.

Prior to construction, the city will relocate the fiber optic line in a new conduit package within the new median of W North Avenue.

Work prior to construction will begin on March 1, 2023 and is estimated at 15 working days for the relocation work.

The field construction contact for City of Wauwatosa – Fiber Optic is Nick Deming at (414) 507-7153.

**City of Wauwatosa - Sewers** owns underground facilities located along the north side of W North Avenue within the project limits. Sanitary sewer improvements proposed in the project corridor are included in the contract documents to be performed by the contractor.

The field construction contact for City of Wauwatosa - Sewers is Nick Deming at (414) 507-7153.

**Spectrum, Mid-America, LLC** owns underground and aerial facilities that are located near the 104<sup>th</sup> Street intersection and midblock between N. 102<sup>nd</sup> Street and N. 101<sup>st</sup> Street along the north side of W. North Avenue.

During construction, two vaults will need to be adjusted to finished grade elevations.

Work during construction is dependent on the roadway contractor's schedule and will take approximately 2 working days to complete. Contractor to notify Spectrum the site is ready for final utility adjustments..

Any facilities not explicitly identified as being relocated have been deemed to be not in conflict and will remain in place as is. It is expected that contractors will work safely around any facilities left within the work zone.

**Verizon** owns underground facilities within the center median of W North Avenue in the project limits.

Prior to construction, Verizon will bore three 2" conduits from Station 169+00LT to 184+00 LT and adjust at existing hand holes. City of Wauwatosa Fiber Optic runs within Verizon's existing conduit package and will be transferred by the city upon installation of new conduit package.

Work prior to construction will begin on February 15, 2022 and is estimated at 15 working days for relocation work.

Any facilities not explicitly identified as being relocated have been deemed to be not in conflict and will remain in place as is. It is expected that contractors will work safely around any facilities left within the work zone.

**Wauwatosa Water Utility** owns underground water main located along the westbound travel lanes and median of W North Avenue through the project corridor. A second water main is also located near the northern curb line of W North Avenue from just west of N 105<sup>th</sup> Street to the eastern project limit. Existing laterals and side road connections are located throughout. Water main improvements proposed in the project corridor are included in the contract documents to be performed by the contractor.

**We Energies – Electric** owns overhead facilities located on power poles with a crossing over W North Avenue located between N 102<sup>nd</sup> Street and N 101<sup>st</sup> Street, as well as underground crossing between N 104<sup>th</sup> Street and N 103<sup>rd</sup> Street.

Prior to construction, the underground crossing between N 104<sup>th</sup> Street and N 103<sup>rd</sup> Street will be removed and relocated with new cable and conduit.

Work prior to construction will begin approximately in December and is estimated at 60 working days for relocation work.

During construction, manhole adjustments will need to be adjusted to proposed roadway elevations at the following locations:

- MH 1955 at Station 66+20, 10' LT
- MH1954 at Station 71+78, 9' RT
- MH1953 at Station 84+61, 7' RT
- MH1952 at Station 86+65, 7' RT
- MH1951 at Station 90+89. 7' RT
- MH2926 at Station 94+89 5' RT
- MH2927 at Station 96+68 5' RT

Work during construction is dependent on the roadway contractor's schedule and will take approximately 2 working days to complete.

It is imperative that the highway contractor contact We Energies before removing any electrical underground cables to verify that they have been discontinued and carry no electrical current. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification.

We Energies Electric Dispatch #1-800-662-4797

**We Energies – Gas** owns underground facilities located underneath the existing sidewalk along the north side of the roadway and the eastbound travel lanes of W North Avenue. Existing crossings located at N 104<sup>th</sup> Street, N 102<sup>nd</sup> Street and N Met-to-Wee Lane.

Prior to construction, the existing main in the eastbound travel lanes is to be discontinued while the main in the northern sidewalk will remain in place. The following locations are proposed for installation:

- Crossing W North Avenue at Station 159+30.
- Main connection along W North Avenue from Station 166+85 RT to 168+55 RT.
- Connection from Station 170+65 RT to 171+75 RT and crossing at 171+75. Main continues from W North Avenue to W Fisher Parkway.
- Crossing W North Avenue on N 104<sup>th</sup> Street (south of W North Avenue).
- Crossing W North Avenue at Station 178+30 and continues along south side to Station 180+75 RT.
- Main connection from along west side of N Met-to-Wee Lane.
- Storm sewer crossing at N 103<sup>rd</sup> Street.

Work prior to construction will begin approximately in November 2022 and is estimated at 60 working days for relocation work.

It is imperative that the highway contractor contact We Energies before removing any gas facilities to verify that they have been discontinued and carry no natural gas. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification.

We Energies Gas Dispatch, 1 (800) 261-5325

**WisDOT Signals** owns underground facilities and equipment that are located at the existing traffic signal with STH 100 (Mayfair Road) and W North Avenue. Signal bases, pull boxes and loop detectors replacements and adjustment work is included in the contract documents to be performed as part of the project improvements.

The following utilities have facilities within the project area. However, no conflicts have been identified.

**Everstream - Communications**

**LUMEN - Communications**

**Milwaukee County Parks – Electric**

**Milwaukee Metropolitan Sewerage District (MMSD) – Combined Interceptor Sewer**

## **7. Railroad Insurance and Coordination - Union Pacific Railroad Company.**

### **A Description**

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

#### **A.1 Railroad Insurance Requirements**

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

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

Also send a copy to the following: Jason Kazmierski, SE Region Railroad Coordinator, 141 N. Barstow Street, Waukesha, WI 53188; Telephone (262) 548-6700; E-mail jason.kazmierski@dot.wi.gov.



Include the following information on the insurance document:

- Project ID: 2135-04-71, 2135-04-72
- Project Location: Wauwatosa, Wisconsin
- Route Name: West North Avenue
- Crossing ID: 177263E
- Railroad Subdivision: Milwaukee Subdivision
- Railroad Milepost: 0092.090
- Work Performed on or within 50' of RR right-of-way: Traffic Control

## **A.2 Train Operation**

Approximately 1 through freight trains operate weekly at up to 40 mph. No switching movements.

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

### **Construction Contact**

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

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

### **Flagging Contact**

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

### **Cable Locate Contact**

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

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

## **A.4 Work by Railroad**

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

## **A.5 Temporary Grade Crossing**

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

stp-107-026 (202200602)

## **8. Hauling Restrictions.**

At all times, conduct operations in a manner that will cause a minimum inconvenience to the free flow of vehicles on roadways carrying W North Avenue and other side road traffic. No construction equipment shall travel on intersecting minor side roads outside of the project limits without approval from the engineer.

When hauling across any public roads, provide the necessary flagging and signing to control the construction equipment movements. The flagging operations shall not impede traffic flow on the public roads.

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

There are wetlands within the right-of-way; however, impacts are not anticipated based on the proposed slope intercepts. Therefore, the department has not requested or obtained a U.S. Army Corps of Engineers 404 Permit for this project.

Methods of operations, including preparatory work, staging, site clean-up, storing materials, or causing impacts to wetlands or waters are not permitted. If the contractor requires work outside the proposed slope intercepts, based on their method of operation to construct the project, it is the contractor's responsibility to determine whether a U.S. Army Corps of Engineers Section 404 Permit is required. If a Section 404 Permit is necessary, obtain the permit prior to beginning construction operations requiring the permit. No time extensions as discussed in standard spec 108.10 will be granted for the time required to apply for and obtain the permit. The contractor must be aware that the Corps of Engineers may not grant the permit request.

Required terms and conditions for general permits are available on the USACE's website:

<https://www.mvp.usace.army.mil/Missions/Regulatory.aspx>

stp-107-054 (20210708)

**10. 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 Michael Baird at (262) 548-5918. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

**11. Erosion Control.**

*Supplement standard spec 107.20 with the following:*

Erosion control best management practices (BMP's) shown on the plans are at suggested locations. The actual locations will be determined by the contractor's ECIP and by the engineer. Include dust control and each dewatering or by-pass (mechanical pumping) operation in the ECIP submittal. The ECIP will supplement information shown on the plans and not reproduce it. The ECIP will identify how to implement the project's erosion control plan. ECIP will demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, re-application of topsoil, and restoration of permanent vegetation to minimize the period of exposure to possible erosion.

Provide the ECIP 14 days prior to the pre-construction meeting. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison Benton Stelzel, (262) 623-0194, [benton.stelzel@wisconsin.gov](mailto:benton.stelzel@wisconsin.gov). Do not implement the ECIP without department approval and perform all work conforming to the approved ECIP.

Maintain Erosion Control BMP's until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

Stockpile excess material or spoils on upland areas away from wetlands, floodplains and waterways. Stockpiled soil and windrows of soil shall immediately be protected against erosion with silt fence, temporary seed, mulch, or as directed by the engineer.

Re-apply topsoil on graded areas, as the engineer directs, immediately after the grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as the engineer directs, within 5 days after placement of topsoil. If graded areas are left not completed and exposed for more than 7 days, seed those areas with temporary seed and mulch/erosion mat within 24 hours.

### **Dewatering (Mechanical Pumping) for Bypass Water (sediment-free) Operations**

If dewatering bypass operations are required from one pipe structure to another downstream pipe structure or from the upstream to downstream end of a culvert and the bypass flow is not transporting sediments (sand, silt, and clay particles) from a tributary work site area, bypass pumping operations will be allowed provided that the department has been made aware of and approves operation. When pumping bypass flows, the discharge location will need to be stable and not produce any erosion from the discharge velocity that would cause release of sediment downstream. Dewatering is considered incidental to the contract.

### **Dewatering (Mechanical Pumping) for Treatment Water (sediment-laden) Operations**

If dewatering operations require pumping of water containing sediments (sand, silt, and clay particles), the discharge will not be allowed to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Do not allow any excavation for; structures, utilities, grading, maintaining drainage that requires dewatering (mechanical pumping) of water containing sediments (sand, silt, and clay particles) to leave the work site or discharge to a storm water conveyance system without sediment removal treatment.

Prior to each dewatering operation, submit to the department a separate ECIP amendment for sediment removal. Guidance on dewatering can be found on the Wisconsin DNR website located in the Storm Water Construction Technical Standards, Dewatering Code #1061,

[http://dnr.wi.gov/topic/stormwater/standards/const\\_standards.html](http://dnr.wi.gov/topic/stormwater/standards/const_standards.html).

Include reasoning, location, and schedule duration proposed for each operation. Per Code 1061, include all selection criteria: site assessment, dewatering practice selection, calculations, plans, specifications, operations, maintenance, and location of proposed treated water discharge. Provide a stabilized discharge area. If directing discharge towards or into an inlet structure, provide additional inlet protection for back-up protection. Dewatering is considered incidental to the contract.

### **Maintaining Drainage**

Maintain drainage at and through worksite during construction conforming to standard spec 107.20, 204.3.2.1(3), 205.3.3 and 520.3.1(2). Use existing storm sewers, existing culvert pipes, existing drainage channels, temporary culvert pipes, or temporary drainage channels to maintain existing surface and pipe drainage. Pumps may be required to drain the surface, pipe, and structure discharges during construction. Costs for furnishing, operating, and maintaining the pumps is considered incidental to the contract.

SER-107-003 (20161220)

## **12. Notice to Contractor – Contamination Beyond Construction Limits.**

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

1. Station 152+00 to 154+00, beyond project limits right (Equitable Bank, 2290 N. Mayfair Rd., WDNR BRRTS No. 02-41-415354, Closed ERP Site).
2. Station 157+25 to 158+25, beyond project limits right (Former City Services, 10605 W. North Ave., WDNR BRRTS No. 03-41-560368, Open LUST Site).

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

The Hazardous Materials Report is available by contacting:

Andrew Malsom  
WisDOT SE Region  
141 NW Barstow St.  
Waukesha, WI 53187  
(262) 548-6705  
[andrew.malsom@dot.wi.gov](mailto:andrew.malsom@dot.wi.gov)

stp-107-100 (20050901)

### **13. Notice to Contractor – Traffic Signal and Street Lighting Lead Time.**

Lead time for traffic signal and street lighting equipment specified for this project has been ranging from 16-weeks to 36-weeks. To assure the equipment is procured in a timely fashion the contractor shall submit shop drawings within 4 calendar days of contract notice to proceed. The contractor shall order the signal equipment within 5 calendar days of approved shop drawings.

### **14. Notice to Contractor – Airport Operating Restrictions.**

Fill out the FAA Notice Criteria tool for all equipment (crane, etc.) used during construction.

<https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

If required by the Notice Criteria toll, and for all crane or construction equipment higher than 200 feet above the ground, submit completed form 7460-1 (Notice of Proposed Construction or Alteration) to The Federal Aviation Administration (FAA) at least 45 days before starting construction.

Contact WisBOA airspace/tall structure manager at [BOAHighwayCoordination@dot.wi.gov](mailto:BOAHighwayCoordination@dot.wi.gov), (608) 266-6812, for assistance submitting forms.

sef-107-020 (20171004)

### **15. Notice to Contractor – WisDOT Owned Facilities.**

The Wisconsin Department of Transportation owns ITS and Lighting facilities within the project limits. The Department has determined these facilities as not in conflict with proposed improvements and will remain in place. It is expected that the contractor to work safely around these facilities.

### **16. Milwaukee County Transit System Coordination**

The Milwaukee County Transit System (MCTS) operates bus routes within and/or directly adjacent to the construction limits: Routes 21 and 22 use W. North Avenue and will be impacted by project construction.

#### Impacts to MCTS Routing

Invite MCTS to all coordination meetings between the contractor, the department, local officials and business stakeholders to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Notify MCTS at least 10 business days prior to beginning project work to provide advance notice of potential service impacts.

#### Impacts to MCTS Signs and Posts

Notify MCTS of work impacting MCTS signs and posts in advance 5 or more business days. MCTS signs include “Bus Stop” and turn disc signs. MCTS signs are mounted on MCTS posts; and on assets owned by others including streetlights, traffic regulators, crosswalk and street signposts. MCTS shall be responsible for MCTS sign and post removal and installation, with the contractor granting access to MCTS personnel to perform such work. Signs stating “No Parking Bus Stop” are the under the ownership and responsibility of the City of Wauwatosa.

### Non-detour Service Suspension at MCTS Bus Stops

Occasions may arise when work requires neither a detour nor the physical alteration of MCTS bus stop assets, but out of passenger safety requires MCTS to temporarily suspend service at a bus stop location.

Notify MCTS in advance five business days of site-specific occasion, and MCTS will sign appropriately to instruct passengers to board at a secondary location. Notify MCTS upon completion of work. MCTS will resume service to any suspended bus stop locations when it is safe to do so.

MCTS contacts:

David Locher  
Milwaukee County Transit System  
1942 N. 17th St.  
Milwaukee, WI 53205  
Phone: (414) 343-1727  
dlocher@mcts.org

Armond Sensabaugh  
Milwaukee County Transit System  
1942 N. 17th St.  
Milwaukee, WI 53205  
Phone: (414) 343-1728  
asensabaugh@mcts.org

### **17. City of Wauwatosa – Lighting.**

The City of Wauwatosa owns underground lighting facilities, light poles and pull boxes located along both sides of W North Avenue within the project limits. Remove and reconstruct street lighting improvements and install temporary lighting proposed in the project corridor as shown in the plans and in the bid items for the project.

The field construction contact for City of Wauwatosa - Lighting is Nick Deming at (414) 507-7153.

### **18. Municipality Acceptance of Sanitary Sewer and Water Main Construction.**

City of Wauwatosa personnel will inspect construction of sanitary sewer and water main under ID 2135-04-72. Acceptance of the sanitary sewer and water main construction will be by the City of Wauwatosa. The construction contact for these items is Nick Deming at (414) 507-7153.

### **19. Referenced Construction Specifications.**

Construct the work enumerated below conforming to the Standard Specifications for Sewer and Water Construction in Wisconsin (SSSW), 6th Edition. 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 and water main work.

stp-105-002 (20130615)

## 20. City Furnished Water Main Materials

The following items shall be furnished by the City of Wauwatosa:

- Resilient Wedge Gate Valve, 6-inch
- Resilient Wedge Gate Valve, 8-inch
- Resilient Wedge Gage Valve, 12-inch
- Butterfly Valve, 16-inch
- Butterfly Valve, 20-inch
- Butterfly Valve, 24-inch
- Fire Hydrant
- 24"x6" MJ A.T.
- 24"x8" MJ TEE with Foster Adapter
- 24"x12" MJ TEE
- 24"x20" MJ TEE
- 24"x24" MJ TEE
- 24"x8" MJ CROSS
- 24"x12" MJ CROSS
- 24"X11.25 MJ BEND
- 24"X45 MJ BEND
- 24"x16" MJ REDUCER
- 20"x12" MJ REDUCER
- 20"x6" MJ A.T.
- 20"X45 MJ BEND
- 20" MJ SLEEVE
- 16"x6" MJ A.T.
- 16"X45 MJ BEND
- 16"X11.25 MJ BEND
- 16" MJ SLEEVE
- 12"x12" MJ TEE
- 12"x45 MJ BEND
- 12"x11.25 MJ BEND
- 12" MJ SLEEVE
- 12"x6" MJ A.T.
- 12"x8" MJ A.T.
- 8"x6" MJ A.T.
- 8"x45 MJ BEND
- 8"x11.25 MJ BEND
- 8"x6" MJ REDUCER
- 8" MJ SLEEVE
- 6"x45 MJ BEND
- 6"x22.5 MJ BEND
- 6" MJ SLEEVE
- 24"1 ½" SERVICE SADDLE
- 1 ½" CORPORATION STOP
- 1 ½" CURB STOP
- 24"X2" SERVICE SADDLE
- 2" CORPORATION STOP
- 2" CURB STOP

- 6"X4" MJ REDUCER
- 12"X22.5 MJ BEND
- 12"X6" MJ REDUCER
- 12"X8" MJ REDUCER
- 24"X12" MJ REDUCER

The city will provide all required MegaLug retainers, glands and gaskets with the various valves, fittings and hydrants noted above. Bolts & nuts shall be provided by the contractor for the MegaLug retaining system materials procured by the city.

The city will provide the stainless-steel stiffener inserts for corporation stops and curb stops noted in the quantities above.

The city procured only the items as listed/noted above. Any other materials necessary for the proper installation of the water main per the plans and specifications shall be procured by the contractor and all costs included for those materials shall be included within the contractor's bid.

The contractor shall pick up the listed water main materials at the DPW (11100 W. Walnut Rd, Wauwatosa, WI 53226) and secure all materials throughout construction. Once materials are obtained by the contractor, the contractor is responsible for all materials.

## **21. Tree Protection.**

The contractor shall take all necessary precautions to protect trees within the project limits. Where the contractor perceives that even with reasonable care, damage may occur to a tree during construction, the City of Wauwatosa Forestry Division shall be contacted at (414) 471-8422 to request a preconstruction meeting on site. If approved by the engineer and the City of Wauwatosa Forestry Division, tree roots may be sawed to facilitate construction of curb and gutter or sidewalk. Only the City of Wauwatosa Forestry Division will repair damage caused to any street tree.

## **22. Weekly Coordination Meeting.**

The contractor shall arrange and conduct weekly meetings between the department, local officials, utilities and subcontractors to discuss the project schedule of operations, traffic control, erosion control and any unresolved conflicts. The first meeting shall be held prior to the start of work under this contract.

## **23. 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 two meetings 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 two weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

## **24. Public Convenience and Safety.**

*Revise standard spec 107.8(6) as follows:*

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

stp-107-001 (20060512)

**25. Removing Traffic Signals, W. North Avenue and N. 104<sup>th</sup> St, Item 204.9060.S.01.**

**A Description**

This special provision describes removing and salvaging above and underground existing traffic signals equipment according to the pertinent provisions of standard spec 204 and as hereinafter provided.

**B (Vacant)**

**C Construction**

The City of Wauwatosa assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working traffic signal equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, will be replaced by the contractor at no cost to the owner.

Remove all standards, poles, and cabinet per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Remove the signal heads, mast arms, luminaires, wiring/cablings, and traffic signal mounting devices from each signal standard, arm or pole. Ensure that all access hand hole doors and all associated hardware remain intact. Pull box lids and rims shall be removed and returned the City of Wauwatosa. Corrugated pull box bodies, concrete bases, loop detector wire, and all conductors and wires (including loop detector lead in cable) shall be removed and properly disposed of off the right-of-way. Conduit shall be removed or abandoned in place. Conduit may be abandoned in place only if it does not interfere with new construction or present a risk of damage to newly constructed items. Deliver the remaining materials to the City of Wauwatosa City Yard, 11100 W. Walnut Road.

Upon installation and operation of temporary traffic signal system, arrange for the de-energizing of the traffic signals with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Notify Randy Michelz, Traffic & Electrical Superintendent, at the City of Wauwatosa at (414) 471-8422 Ext. 5913 at least three working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

**D Measurement**

The department will measure Remove Traffic Signals (Intersection) as 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
204.9060.S.01	Removing Traffic Signals, W. North Avenue & N. 104 <sup>th</sup> Street	EACH

Payment is full compensation for removing and disassembling traffic signals, scrapping of some materials, storing salvaged items on site, disposing of scrap material, reinstalling some materials, and for delivering the indicated materials to the City of Wauwatosa.

**26. Removing Lighting System, Item 204.9060.S.03.**

**A Description**

This special provision describes the removal of above and underground existing lighting equipment according to the pertinent provisions of standard spec 204 and as hereinafter provided.

**B (Vacant)**

**C Construction**

The existing equipment removed from service shall become the property of the contractor who shall be responsible for removal from the site and appropriate disposal.

The removal of the lighting system may need to occur in stages to maintain temporary lighting at all times.

Remove all poles per plan from their concrete footings and disassemble out of traffic. Remove and dispose of lighting cabinet, poles, transformer bases, luminaire arms, non-LED luminaires fixtures ballast/drivers, and wiring/cablings. Dispose of the underground lighting wiring, internal wires off the right-of-way.



High Intensity Discharge – Lamp Disposal

High intensity discharge (mercury vapor, metal halide, and high-pressure sodium) lamps shall be removed and disposed as hazardous materials. All removed HID lamps shall be handled to prevent breakage. Any broken bulbs shall be disposed of in the same manner as unbroken. All bulbs shall be sent to a commercial lighting lamp recycler, meeting the definition of a “destination facility” and operate under a state permit or RCRA equivalent authority to perform lamp recycling according to RCRA 40 CFR 273.6. Provide a copy of the paid bill from the recycler to the DOT to prove the proper handling of the lamps. The bill needs to identify the total quantity of each type of lamps received. Web site [www.lamprecycle.org](http://www.lamprecycle.org) provides information on recyclers. Inclusion of a recycler in the above web site does not constitute an endorsement by the department.

The existing LED luminaire fixtures and existing lighting cabinet shall be removed, salvaged and delivered to the city. Notify Randy Michelz, Traffic & Electrical Superintendent, at the City of Wauwatosa at (414) 471-8422 Ext. 5913 at least three working days prior to delivery to make arrangement.

**D Measurement**

The department will measure Removing Lighting System as each entire system removal, acceptably completed.

**E Payment**

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.03	Removing Lighting System	EACH

Payment is full compensation for removing, disassembling lighting poles, disposing of scrap material, for delivering the requested materials to the city, and incidentals necessary to complete the contract work.

**27. Removing Retaining Wall, Item 204.9090.S.01.**

**A Description**

This special provision describes removing retaining wall conforming to standard spec 204.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Retaining Wall by the linear foot, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Retaining Wall	LF
stp-204-025 (20150630)		

**28. QMP HMA Pavement Nuclear Density.**

**A Description**

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

- (1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 except as modified in this special provision.
- (2) Provide and maintain a quality control program defined as all activities and documentation of the following:
  - 1. Selection of test sites.
  - 2. Testing.
  - 3. Necessary adjustments in the process.
  - 4. Process control inspection.

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

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

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

<http://www.atwoodsystems.com/>

## **B Materials**

### **B.1 Personnel**

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

### **B.2 Testing**

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

### **B.3 Equipment**

#### **B.3.1 General**

- (1) Furnish nuclear gauges according to CMM 8-15.2.  
(2) Furnish nuclear gauges from the department's approved product list at:

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

#### **B.3.2 Comparison of Nuclear Gauges**

##### **B.3.2.1 Comparison of QC and QV Nuclear Gauges**

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

##### **B.3.2.2 Comparison Monitoring**

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

### **B.4 Quality Control Testing and Documentation**

#### **B.4.1 Lot and Sublot Requirements**

##### **B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances**

- (1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.  
(2) Determine required number of tests according to CMM 8-15.10.2.1.  
(3) Determine random testing locations according to CMM 8-15.10.3.

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

- (1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.  
(2) Determine required number of tests according to CMM 8-15.10.2.2.  
(3) Determine random testing locations according to CMM 8-15.10.3.

#### **B.4.2 Pavement Density Determination**

##### **B.4.2.1 Mainline Traffic Lanes and Appurtenances**

- (1) Calculate the average sublot densities using the individual test results in each sublot.  
(2) If all sublot averages are no more than one percent below the target density, calculate the daily lot density by averaging the results of each random QC test taken on that day's material.  
(3) If any sublot average is more than one percent below the target density, do not include the individual test results from that sublot when computing the lot average density and remove that sublot's tonnage from the daily quantity for incentive. The tonnage from any such sublot is subject to disincentive pay as specified in standard spec 460.5.2.2.

## **B.4.2.2 Mainline Shoulders**

### **B.4.2.2.1 Width Greater Than 5 Feet**

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

### **B.4.2.2.2 Width of 5 Feet or Less**

- (1) If all subplot test results are no more than 3.0 percent below the minimum target density, calculate the daily lot density by averaging all individual test results for the day.
- (2) If a subplot test result is more than 3.0 percent below the target density, the engineer may require the unacceptable material to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine the limits of the unacceptable material according to B.4.3.

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

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

### **B.4.2.4 Documentation**

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

## **B.4.3 Corrective Action**

- (1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.
- (2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted subplot. Testing in a previously accepted subplot will not be used to recalculate a new lot density.
- (3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full subplot width within the traffic lanes or shoulders.
- (4) Retesting and acceptance of replaced pavement will be as specified in standard spec 105.3.
- (5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the subplot and lot densities.
- (6) If two consecutive subplot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

## **B.5 Department Testing**

### **B.5.1 Verification Testing**

- (1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's QC work. The department will perform verification testing at a minimum frequency of 10 percent of the sublots and a minimum of one subplot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.
- (2) The QV tester will test each selected subplot using the same testing requirements and frequencies as the QC tester.
- (3) If the verification subplot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.
- (4) If the verification subplot average is more than one percent below the specified target density, compare the QC and QV subplot averages. If the QV subplot average is within 1.0 lb/ft<sup>3</sup> of the QC subplot average, use the QC tests for acceptance.

- (5) If the first QV/QC subplot average comparison shows a difference of more than 1.0 lb/ft<sup>3</sup> each tester will perform an additional set of tests within that subplot. Combine the additional tests with the original set of tests to compute a new subplot average for each tester. If the new QV and QC subplot averages compare to within 1.0 lb/ft<sup>3</sup>, use the original QC tests for acceptance.
- (6) If the QV and QC subplot averages differ by more than 1.0 lb/ft<sup>3</sup> after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

### **B.5.2 Independent Assurance Testing**

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

### **B.6 Dispute Resolution**

- (1) The testers may perform investigation in the work zone by analyzing the testing, calculation, and documentation procedures. The testers may perform gauge comparison according to B.3.2.1.
- (2) The testers may use comparison monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.
- (3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV subplot density test results or retesting of the subplot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.
- (4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

### **B.7 Acceptance**

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

### **C (Vacant)**

### **D (Vacant)**

### **E Payment**

#### **E.1 QMP Testing**

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

#### **E.2 Disincentive for HMA Pavement Density**

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

#### **E.3 Incentive for HMA Pavement Density**

- (1) The department will administer density incentives as specified in standard spec 460.5.2.3.  
stp-460-020 (20181119)

## **29. Precast Concrete Box Culvert, 7 FT x 6 FT, Item 504.2000.S.01.**

### **A Description**

This special provision describes furnishing and installing precast concrete box culverts of the size and length the plans show.

## B Materials

Provide materials and fabricate Precast Concrete Box Culvert according to ASTM C1577, except that the concrete mixture shall contain not less than 565 pounds of Portland cement, blended cement or Portland cement plus pozzolanic admixture per cubic yard. Slab thickness, areas of reinforcement, and other details shall be as the plans show.

## C (Vacant)

## D Measurement

The department will measure Precast Concrete Box Culvert, 7 FT x 6 FT, completed according to the contract and accepted, in length by the linear foot in place. The box culvert will be measured on the centerline of the box along the flow line.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
504.2000.S.01	Precast Concrete Box Culvert, 7 FT x 6 FT	LF

Payment is full compensation for furnishing, hauling and placing the box, including joint ties, and mastic.

stp-504-015 (20160607)

### 30. Concrete Staining R-40-733, Item 517.1010.S.

#### 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
	ThoroSeal Pearl Gray by Thoro Products

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

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

##### B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces, 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 Surfacer, 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 R-40-733 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	Concrete Staining R-40-733	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)

**31. Adjusting Manhole Covers, Item 611.8110.**

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

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

*Supplement standard spec 611.3.7 with the following:*

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

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

stp-611-005 (20200629)

**32. 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)

**33. Tree Planting.**

The work consists of furnishing and installing trees conforming to standard spec 632 and as hereinafter provided.

Planting shall be performed only by skilled workers with satisfactory record of performance on completed projects of comparable size and quality.

Use proper horticultural practice in handling all plant material making sure root ball remains intact without cracks or loose soil within the root ball.

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

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

Copies of purchase orders from the nurseries must be supplied to the Superintendent of Forestry to determine correct species. The City of Wauwatosa Forestry Division contact number is (414) 471-8422.

Plant substitutions for any reason must be approved by the Superintendent of Forestry before installation.

The location of plant holes and beds shall be staked out or painted by the contractor. All marked locations shall be approved by engineer before excavation begins.

Plant material and mulch must be inspected and approved by the Superintendent of Forestry before installation.

Mulch shall be of uniform size and comply with D.A.T.C.P. ash regulations

The contractor must notify the Superintendent of Forestry 24 hours prior to planting. City Forestry personnel must be present during all planting operations.

For shade and ornamental tree planting, refer to the City of Wauwatosa Tree Planting Detail in the plans.

1. Any Tree Tags or ribbons on tree are to be removed.
2. Broken branches are removed.
3. Bud/Graft Union. Use to assist in the location of the root flare on balled and burlapped trees. Estimate root flare at 6" below the bud/graft union.
4. Root Flare must be exposed and slightly above the finished grade. No fill should be placed on top of the root ball.
5. With the tree in the upright position, cut openings into the burlap on top of ball in between the rope holding the basket to the root ball. Dig into the ball soil using a small hand trowel to locate the root flare. The root flare is the area where the main roots transition into the trunk. Measure up from bottom of the root ball to the root flare to determine the proper depth of the planting hole.
6. The planting hole depth is set according to the measurement determined as described above. The bottom of the planting hole should be undisturbed. If the hole is too deep, soil must be added and compacted beneath the tree ball.
7. Flare the Planting Hole edges in all soils. The planting hole shall be excavated 12" wider on all sides.
8. Glazed Soil on side of planting hole is broken up.
9. Remove the bottom half of the wire basket, leaving the burlap intact. Set the ball in the hole at the proper depth previously established. Place 6" to 10" of soil around the ball to stabilize it. Then remove the remaining wire basket and burlap above the soil just added.
10. Guying consists of straps of webbing attached with wire. Space straps several inches apart where possible. Do not over tighten. The tree should be able to move slightly.
11. Twist wire back to avoid injury. Metal "T" post stakes are parallel to the trunk and installed outside the root ball with the flanges facing out.
12. Backfill material must be approved by the Superintendent of Forestry prior to backing around the trees. Unsuitable excavated materials shall include materials such as: heavy clay, concrete, gravel, organic material, sand or other as determined on site. If excavated material is unsuitable to be used for planting the contractor shall supply a silt loam soil to be used in place of the excavated material. The contractor shall dispose of unsuitable and excess excavated material.



13. Trees shall be fertilized with two commercial grade "PHC Tree Saver" mycorrhizal/fertilizer or approved equal, packets per tree.
14. Plants shall be thoroughly watered in to eliminate all air pockets around the tree ball.
15. Mulch is placed over soil 3" thick, no deeper than 1" deep next to the trunk and dished away.

**34. 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 \$600 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)

The Plant Establishment Period identified under standard spec 632.3.18.1.1 shall be modified from a two-year period to a one-year period.

**35. Moving Signs Type II, Item 638.2102.**

*Append standard spec 638.3.2 to include the following:*

- (5) Remove all signs to be salvaged and reused on the project prior to removing light poles. Provide safe storage of signs during construction. Street signs for non-signalized intersections will be city furnished. For exchange of salvaged street name signs for new street name signs, contact Randy Michelz, City of Wauwatosa, at (414) 471-8422 Ext. 5913 three working days prior to installation.
- (6) Provide new mounting hardware (bands), conforming to standard spec 637, for existing signs being moved to new sign poles, light poles or signal poles. Hardware for street name signs will be city furnished.

**36. Removing Signs Type II, Item 638.2602.**

Perform this work according to standard spec 638 and as hereinafter provided.

Remove and stockpile at a location within the right-of-way, outside of the construction limits, all salvageable signs and post for salvaging by the City of Wauwatosa. Contact Randy Michelz, City of Wauwatosa, at (414) 471-8422 Ext. 5913 three working days prior to removal.

**37. Electrical Wiring.**

*Modify standard spec 655 with the following:*

**655.2.6 Electrical Wire for Lighting**

Where applicable, pull box splices shall be made using 3M Scotchcast Resin 82-A1N for in-line and Scotchcast Resin 82-B1N for wye splices.

**38. Electrical Service Meter Pedestal (Intersection), Item 656.0201.**

*Append standard spec 656.3.4 with the following:*

The contractor will be responsible for electrical service installation or relocation requests. The city will be responsible for any charges from We Energies. Electrical utility company service installation or relocation and energy cost will be billed to and paid for by the maintaining authority.

Install the cabinet base and meter breaker pedestal first, so the electrical utility company can install the service lateral. Finish grade the service trench, replace topsoil that is lost or contaminated with other materials, fertilize, seed, and mulch all areas that are disturbed by the electric utility company.

*Add the following to standard spec 656.5(3):*

Payment for grading the service trench, replacing topsoil, fertilizer, seed, and mulch will be incidental to this work unless the bid items are in the contract and then they will be paid for at the contract price.

### **39. Traffic Signals General.**

Work under this item shall consist of furnishing and installing all materials for traffic signals in the City of Wauwatosa WI, according to the plans and standard spec 658, and these special provisions.

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. Also, any additional disruption of department-owned facilities shall be repaired or relocated as needed at the contractor's expense.

The contractor shall furnish all materials, which include but are not limited to, the traffic signal cabinet and controller, and traffic signal control equipment as listed in the plans (such as, pedestal bases, transformer bases, traffic signal standards, poles, monotube poles and arms, traffic signal faces, backplates, pedestrian signal faces, pedestrian push buttons, traffic signal mounting hardware, video detection system, emergency vehicle preemption system, concrete foundations, etc.). Certain materials may be removed and reinstalled; if such items are included in this project, these items are identified as "SALVAGED" in the Miscellaneous Quantities tables in the plans.

Furnish the engineer with material lists and specifications of all traffic control equipment for approval prior to installation.

The contractor is responsible for requesting the electrical service installation or relocation from the power company and the County shall pay the installation costs. The contractor shall coordinate with the city to verify a city contact person and address to be listed in the electrical service application.

The contractor shall stake the proposed locations of traffic signal items 10 days prior to starting work so that the locations of the proposed facilities can be approved by the city. Any field changes regarding the location of the signal poles, pull boxes, etc. shall be approved either by the city or by the city's on-site construction management representative.

The contractor shall request an inspection of the underground wiring upon completion of its installation and a full inspection of the completed signal installation prior to, or at the time of, signal start up testing. This request shall be made to the city at least three working days prior to the time of the requested inspection.

All electrical wiring as part of standard spec 655 and otherwise denoted in the special provisions of the contract shall be housed internally inside poles, standards, arms, mounting brackets, and signal heads, as directed by the engineer in the field. No external wiring shall be permitted unless otherwise directed by the engineer.

### **40. Street Lighting General**

This section describes providing lighting conforming to standard spec 659 and as hereinafter provided.

All materials furnished by the contractor for lighting installation under this contract or subject to approval by the engineer. Materials and equipment by manufacturers other than those specifically named will not be considered.

Unless otherwise stipulated in the specifications are noted on the drawings, all materials and equipment incorporated in the work shall be new and unused and in complete accordance with the specification requirements.

Materials and/or work not specifically identified as or in a bid item shall be considered incidental to work and shall be included in appropriate bid item(s).

It is the contractor's responsibility to verify the catalog number shown on the plans and specifications and update same before submitting shop drawings. Any catalog number revisions or subsequent material cost increases should be made at no additional cost to the contract whether it is because of a different type or mounting due to project conditions, discontinued catalog numbers or other such issues. In the case of discontinued catalog numbers, the electrical contractor shall bring it to the engineer's attention with the manufacturer's recommended substitution before shop drawings are submitted so that the appropriate equipment can be selected by the engineer.

The contractor shall furnish a complete list and cut sheets/shop drawings of materials to be furnished and used for lighting and electrical. Such list shall include the names and addresses of manufacturers, together with catalog numbers, certificates of compliance, specifications, and other product information requested by the engineer. Bid Items shall be appropriately assembled as an individual submittal. Catalog numbers shall be identified on respective data sheets. The list of cut sheets/shop drawings shall be submitted within 20 calendar days of the award of contract. No materials shall be incorporated into the lighting system prior to written approval of the engineer. Approval does not change the intent of the specifications. The contractor shall not substitute or make changes in material without resubmittal for approval.

The following items shall be submitted for approval:

General Items:

Fuse Holders/Fuses

Splices

Wire Identification

Poles

Luminaires

Control Cabinets (materials and equipment layout/wiring diagrams)

Duct (including couplings)

Conduit (including fittings, supports, etc.)

Electrical Wire (underground and pole wiring)

Pull Boxes

Testing Results (Prior to final payment)

As-built Record drawings (Prior to final payment)

Work shall conform to the latest State of Wisconsin Standard Specifications for Highway and Structure Construction ("Standard Specifications"), the latest adopted state of Wisconsin Electrical Code and these special provisions.

#### As-Built Record Drawings

Upon completion of the project, the contractor shall prepare and as-built plans and deliver one original copy to the city. All changes from the original plan that were built into the project will be noted in red permanent ink upon the original plans. As-built information shall be turned over along with testing results.

#### Splices

Lighting units (underground to pole wiring):

Splices shall accept (4) #14-#2 conductors, be underground/overhead rated and include gel filled hinge splice closure. Utilize NSI Easy-Splice Gel Tap Splice Kit series connectors (ESGTS-2), or equal by Burndy or Thomas & Betts. Provide two wraps of electrical tape around closure. Split bolts are not allowed.

#### Pull Boxes

Splices shall accept quantity and size of conductors required at individual pull boxes (which may be a of different configurations), be direct burial and submersible rated. Utilize multi-cable compression connectors with the splice encased in a multi-mode permanent resin compound. Split bolts are not allowed. No splices are allowed in pull boxes, unless indicated on the plans.

#### Threaded Fasteners

These special provisions require the corrosion preventive compound described in standard spec 657.1(3) and 657.3.5.

All threaded fasteners (i.e., anchor bolts, screws, bolts, etc.) shall be liberally coated with an approved anti-seize compound, excess shall be wiped off. Excepting fasteners inside control cabinets, fasteners up to half an inch in diameter shall be stainless steel.

#### Circuit Identification

Color coding shall be accomplished by the use of cable jackets of the proper color. All tails of all splices shall be coded. Secondary distribution circuits shall be color-coded with even circuits red, odd circuits black, neutral conductor white, and the ground conductor shall be green.

Each of the line-side underground conductors at every pole and poll box shall additionally have a 6-inch wrap of blue electrical tape applied to identify the set of conductors emanating "from" the control cabinet.

Each accessible location of underground cable in control cabinets, pull boxes and pole/transformer bases shall have a permanent embossed 304 stainless steel tag with 3/16" characters attached in a "flag" manner using a black outdoor rated nylon tie. The tags shall include information identifying the cabinet and conductor circuit number (i.e., STR-3).

#### Utility Coordination

Coordinate with WE ENERGIES to energize service at the electrical service/lighting control cabinet.

#### Energy Rebates

The contractor shall provide the city with a copy of material invoice (pricing not necessary) for indicating proof of purchase, quantities and complete manufacturer name/catalog number of luminaires provided on project. The city will use this information to apply for any available rebates.

### **41. Lamp Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.**

#### **A Description**

This special provision describes the detachment and packaging of lamps, ballasts, LEDs, and mercury containing switches (e.g., overhead roadway lighting, underdeck bridge, wall packs, pedestrian signals, traffic control stop lights and warning flashers, fluorescent bulbs, and thermostats) removed under this contract for disposal as hazardous materials.

For Lamp, Ballast, LED, Switch Disposal by Contractor, coordinate removal from the work site by the department's hazardous waste disposal vendor. Disposal will be billed to the department by the hazardous waste disposal vendor.

#### **B Materials**

Items removed under this contract will be considered the property of the department for waste generator identification. The contractor is responsible for coordinating with the department's hazardous waste vendor for disposal:

<https://wisconsin.gov/Documents/doing-bus/eng-consultants/cnslt-rsrcs/environment/hazwaste-contacts.pdf>

#### **C Construction**

##### **C.1 Removal**

Arrange for the de-energizing of luminaires after receiving approval from the engineer that the existing luminaires can be removed. Do not remove luminaires that cannot be replaced with proposed LED units and operational within the same workday. Temporary lighting and signals shall be in place prior to removal of lighting units.

Detach and remove luminaires and lamps from the existing traffic signal poles or respective structure. Avoid breaking fixtures whenever possible.

Lamps, ballasts, LED, and switches will become property of the contractor, and will be disposed of in an environmentally sound manner.

##### **C.2 Packaging of Hazardous Materials**

Provide a secure, level location removed from the travelled way for storage of the material for disposal.

Pack intact fixtures in the packaging of the new lamps used to replace them, or packaging affording the equivalent protection. Place in full, closed stackable cartons.

Pile cartons no more than four high if palletized and secure cartons with shrink wrap to prevent shifting or falling of the loads. Clearly mark each pallet with the words "Universal Waste Lamps" or "Universal Waste Ballasts", the date, and the number of fixtures on each pallet.

Pack broken fixtures into (min.) 6 mil thick plastic bags and place inside sturdy cardboard boxes or the equivalent. Mark the outer packaging with the term "Broken Fixtures/Lamps", the date and the number of broken fixtures clearly marked on the box.

The hazardous waste vendor will not accept fixtures improperly packaged. The vendor will reject any fixtures not removed as part of a contract pay item or otherwise required under this contract.

Pack ballasts and mercury containing switches in appropriate containers.

### **C.3 Disposal by Contractor**

Complete the lamp and ballast inventory (<https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrcs/environment/dotlampballastinventory.dotx>) and contact the hazardous waste vendor to coordinate pickup and disposal at a location specified by the contractor. Consolidate all pallets and boxes from one project at a single location. Contact the hazardous waste vendor to set up an appointment for pickup. The hazardous waste vendor requires a minimum of one week advance notice to schedule pickup.

### **D Measurement**

The department will measure Lamp, Ballast, LED, Switch Disposal by Contractor as each individual unit removed and received by the hazardous waste vendor, properly packaged and acceptably completed, matching the total number of units provided on the inventory form. The department will not measure broken fixtures that exceed a total of 10 percent of all fixtures to be disposed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH

Payment for Lamp, Ballast, LED, Switch Disposal by Contractor is full compensation for detachment, handling, packaging, labeling and scheduling disposal with the hazardous waste vendor; and scrapping and disposal of all other materials.

stp-659-500 (20220628)

## **42. Crack and Damage Survey, Item 999.1501.S.**

### **A Description**

This special provision describes conducting a crack and damage surveys of the residences and businesses located within the project limits.

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.

Notify and coordination with Fairview Building (10425 W North Avenue) 5-days prior to survey. Contact Business Manager Daniel Adams at (414) 552-0379.

Temporary lighting will be required throughout the duration of construction to account for removal of existing lighting system and until new lighting system is in place. Contractor must diagnose within 24-hours of being notified of an outage and resolve any outages within 72-hours.

#### **D Measurement**

The department will measure Crack and Damage Survey as single unit for each location, acceptably completed. Locations include:

10425 W North Avenue

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1501.S	Crack and Damage Survey	EACH

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

stp-999-010 (20210708)

### **43. Remove, Salvage and Reinstall Wheel Stops, Item SPV.0060.01.**

#### **A Description**

This special provision describes removing salvaging and reinstalling existing wheel stops.

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

#### **C Construction**

Remove the existing wheel stops in a way that prevents damaging the wheel stops to the location shown on the plans. If the contractor damages the wheel stops through its own operations, then the contractor shall replace them at no expense to the department.

Store materials in a safe location until they are ready to be reinstalled.

Reinstall the salvaged wheel stops to original layout and configuration on the new asphaltic surface in alignment with the existing pavement marking of the parking lot.

#### **D Measurement**

The department will measure Remove, Salvage and Reinstall Wheel Stops 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.0060.01	Remove, Salvage and Reinstall Wheel Stops	EACH

Payment is full compensation for removing the existing wheel stop, storing, installing wheel stops in existing parking lot and all incidentals necessary to complete the work.

**44. Inlet Covers Type SP, Item SPV.0060.02.**

**A Description**

This special provision describes providing inlet covers as identified on the plans.

**B Materials**

Furnish materials according to the requirements of standard spec 611 and the details as shown on the plans.

Frame and grate shall be Neenah R-3293-2

**C Construction**

Perform work under these items according to the requirements of standard spec 611 and the details as shown on the plans.

**D Measurement**

The department will measure Inlet Covers Type SP 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.0060.02	Inlet Covers Type SP	EACH

Payment is full compensation for removing and salvaging the existing covers; and for providing new covers, including frames, grates or lids, and other required materials and for installing and adjusting each cover. Old covers removed remain the municipality's property.

**45. Manhole Covers Type J-SP, Item SPV.0060.03.**

**A Description**

This special provision describes providing manhole covers as identified on the plans.

**B Materials**

Furnish materials according to the requirements of standard spec 611 and the details as shown on the plans.

Frame and grate shall be Neenah R-2471-D

**C Construction**

Perform work under these items according to the requirements of standard spec 611 and the details as shown on the plans.

**D Measurement**

The department will measure Manhole Covers Type J-SP 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.0060.03	Manhole Covers Type J-SP	EACH

Payment is full compensation for removing and salvaging the existing covers; and for providing new covers, including frames, grates or lids, and other required materials and for installing and adjusting each cover. Old covers removed remain the municipality's property.

**46. Catch Basins 2, Item SPV.0060.04; Inlets 2, Item SPV.0060.05.**

**A Description**

This special provision describes providing catch basins as identified on the plans.

**B Materials**

Furnish materials according to the requirements of standard spec 611 and the details as shown on the plans.

**C Construction**

Perform work under these items according to the requirements of standard spec 611 and the details as shown on the plans.

**D Measurement**

The department will measure Catch Basins 2 and Inlets 2 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.0060.04	Catch Basins 2	EACH
SPV.0060.05	Inlets 2	EACH

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

**47. Special Manhole Sta. 165+36, Item SPV.0060.06;  
Special Manhole Sta. 168+77, Item SPV.0060.07.**

**A Description**

This special provision describes providing special manholes as identified on the plans.

**B Materials**

Furnish materials according to the requirements of standard spec 611 and the details as shown on the plans.

**C Construction**

Perform work under these items according to the requirements of standard spec 611 and the details as shown on the plans.

The contractor shall submit shop drawings of the manhole for review and approval.

The manhole can be either cast in place or precast.

**D Measurement**

The department will measure Special Manhole Sta. 165+36 and Special Manhole Sta. 168+77 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.0060.06	Special Manhole Sta. 165+36	EACH
SPV.0060.07	Special Manhole Sta. 168+77	EACH



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

- 48. Temporary Pipe Connection 12-Inch, Item SPV.0060.08;  
Temporary Pipe Connection 15-Inch, Item SPV.0060.09;  
Temporary Pipe Connection 18-Inch, Item SPV.0060.10;  
Temporary Pipe Connection 54-Inch, Item SPV.0060.11;  
Temporary Pipe Connection 72-Inch, Item SPV.0060.12.**

**A Description**

This special provision describes providing a temporary pipe connection between existing storm sewer and proposed storm sewer during staging according to standard spec 612.

**B Materials**

Furnish unperforated pipe underdrain and fittings according to standard spec 612.2.

Furnish concrete for concrete collars according to standard spec 520.2.4.

**C Construction**

Install temporary pipe connections according to standard spec 612.

All elbows and other fittings shall be incidental to the temporary pipe connection.

Connect the temporary pipe connection to the existing and proposed storm sewer using an engineer approved method that is watertight and does not damage the proposed storm sewer pipe.

Remove the temporary pipe connection when it is no longer needed to maintain drainage. Backfill the excavation according to standard spec 204.

**D Measurement**

The department will measure Temporary Pipe Connection (Size) by each connection, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Temporary Pipe Connection 12-Inch	EACH
SPV.0060.09	Temporary Pipe Connection 15-Inch	EACH
SPV.0060.10	Temporary Pipe Connection 18-Inch	EACH
SPV.0060.11	Temporary Pipe Connection 54-Inch	EACH
SPV.0060.12	Temporary Pipe Connection 72-Inch	EACH

Payment is full compensation for providing up to 10 feet of pipe, fittings; for all mechanical bands, concrete collars, or other pipe to pipe connections; for connections to existing and proposed storm sewer; for all excavation, compaction, and backfill; for preparing the foundation; for all dewatering; for removing the pipe and backfilling the excavation.

The department will pay for temporary pipe connections longer than 10 feet using bid items under standard spec sections 530 or 612 items.

- 49. Resilient Wedge Gate Valve, 6-Inch, Item SPV.0060.13;  
Resilient Wedge Gate Valve, 8-Inch, Item SPV.0060.14;  
Resilient Wedge Gate Valve, 12-Inch, Item SPV.0060.15.**

**A Description**

This work includes installing City furnished resilient wedge gate valves at locations indicated in the plans, conforming to the City Specifications and SSSW, and as hereinafter provided.

## **B Materials**

Materials furnished by the City are found in Article City Furnished Water Main Materials article.

All permanent water distribution products shall be manufactured in the USA.

### **B.1 City Furnished Resilient Wedge Gate Valves**

All gate valves shall be mechanical joint resilient wedge valves manufactured to meet all applicable requirements of Section 8.27 of the SSSW and AWWA C509 or C515. All gate valves shall be 200 psi rated water working pressure.

Each valve shall be tested by hydrostatic pressure equal to twice the specified working pressure. All valves shall have mechanical joints with Cor-Blue bolts and nuts made of coated corrosion resistant steel. All exposed valve hardware shall be T304 stainless steel. All valves shall have a non-rising stem and shall open to the right (clockwise).

Valves for hydrants shall be attached directly to the mechanical joint anchoring tee except where shown otherwise on the plans.

Valves shall have component parts cast, machined, assembled, and tested in the USA.

### **B.2 Valve Box Adaptor**

Furnish epoxy-coated, 1/4-inch steel, rubber gasket and size to fit valve.

Manufacturer:

Adaptor Inc., "6 Base Multifit Box Adaptor" or "Gate Valve Adapter" or engineer approved equal

### **B.3 Valve Box and Cover**

Ductile Iron Valve Box: three- piece screw type unit with 5-1/4 inch diameter shaft, 17-1/4 inch diameter (#6) base, length of assembly sized to span top of main to finished grade (1/2 inch below grade in turf) with a minimum adjustment remaining for an additional 3 inches. The cover shall be marked "WATER"

Manufacturer:

Tyler Union, Inc. 6860 series or engineer approved equal

### **B.4 Polyethylene Sheeting for Pipe Corrosion Protection**

Polyethylene sheeting conforming to ASTM D4976, Type I, Class B, Color: Black, Grade E-1, 1200 psi tensile strength, minimum thickness of 8 mil. Tube diameter or sheet width shall conform to AWWA C105.

Furnish tape for polyethylene sheeting that is 2-inch wide, black tape with rubber adhesive and minimum 9 mil polyethylene backing. Tape shall be 3M™ Preservation Sealing Tape 481 or Scapa Sealing Tape No. 136.

### **B.5 Bedding and Cover: shall be one of the following**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

### **B.6 Trench Backfill: shall be one of the following**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

## **C Construction**

Water distribution system utility owner is City of Wauwatosa. Contact Adam Florin (Phone (414) 471-8480 Ext. 5915) for coordination of work and operation of existing water system components.

All shutdowns shall be coordinated with the utility owner and minimum 7 calendar days' notice given.

Contractor shall prepare a detailed time schedule and plan for placing the proposed water valves in service. Contractor shall confirm that the proposed water main has passed two bacteriological tests prior to placing in service.

All valves and hydrants shall be operated by City of Wauwatosa staff only. City of Wauwatosa shall locate and exercise all isolation and hydrant valves at least 7 calendar days prior to flushing and connection work.

Limit horizontal excavation to sufficient exterior clearance to allow a safe work area for installers.

Where ground water is present in bottom of excavation, remove water by pumping, maintain free of water, and place 12 inches of crushed stone as bedding.

Perform backfilling carefully, bringing fill up evenly on all sides.

### **C.1 General**

Install valve in closed position and according to manufacturer's instructions.

Set valve on solid masonry concrete blocking (16-Inch x 8-Inch x 4-Inch) with long dimension of block perpendicular to water main and level.

Extend bedding and compact up to elevation required to set valve box adaptor over valve.

Set valve box on valve box adaptor. Verify centered location and check installation by applying key over valve nut to verify access and operation.

Place additional bedding material to a minimum depth of 6 inches around valve box and compact to prevent box or adaptor from shifting.

Extend valve box to subgrade and place a sheet of polyethylene over shaft prior to inserting cover to seal box.

Adjustment of valve box to temporary and finished grades will be responsibility of grading or paving contractor.

Coat internal cast iron surfaces with two coats of corrosion resistant coating.

### **D Measurement**

The department will measure Resilient Wedge Gate Valve, 6-Inch, 8-Inch, and 12-Inch by each valve installed, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV 0060.13	Resilient Wedge Gate Valve, 6-Inch	EACH
SPV.0060.14	Resilient Wedge Gate Valve, 8-Inch	EACH
SPV.0060.15	Resilient Wedge Gate Valve, 12-Inch	EACH

Payment is full compensation for furnishing and installing all materials unless denoted otherwise in the article City Furnished Water Main Materials; surveying, excavating, backfilling, compacting and testing.

- 50. Butterfly Valve, 16-Inch, Item SPV.0060.16;  
Butterfly Valve, 20-Inch, Item SPV.0060.17;  
Butterfly Valve, 24-Inch, Item SPV.0060.18.**

### **A Description**

This work includes and installing city furnished butterfly valves at locations indicated in the drawings, conforming to the City Specifications and SSSW, and as hereinafter provided.

### **B Materials**

Materials furnished by the city are found in the City Furnished Water Main Materials article.

All permanent water distribution products shall be manufactured in the USA.

### **B.1 City Furnished Butterfly Valves**

All butterfly valves shall be mechanical joint rubber-seated valves manufactured to meet all applicable requirements of Section 8.28 of the SSSW and AWWA C504. All butterfly valves shall be 150 psi rated water working pressure and the operating nut shall be oriented towards the centerline of the road.

Each valve shall be tested by hydrostatic pressure equal to twice the specified working pressure. All valves shall have mechanical joints with Cor-Blue bolts and nuts made of coated corrosion resistant steel. All exposed valve hardware shall be T304 stainless steel. All valves shall have a non-rising stem and shall open to the right (clockwise).

Valves shall have component parts cast, machined, assembled, and tested in the USA.

## **B.2 Valve Box Adaptor**

Furnish epoxy-coated, 1/4-inch steel, rubber gasket and size to fit valve.

Manufacturer:

Adaptor Inc., "6 Base Multifit Box Adaptor" or "Gate Valve Adapter" or engineer approved equal

## **B.3 Valve Box and Cover**

Ductile Iron Valve Box: three- piece screw type unit with 5-1/4 inch diameter shaft, 17-1/4 inch diameter (#6) base, length of assembly sized to span top of main to finished grade (1/2 inch below grade in turf) with a minimum adjustment remaining for an additional 3 inches. The cover shall be marked "WATER".

Manufacturer:

Tyler Union, Inc. 6860 series or engineer approved equal

## **B.4 Polyethylene Sheeting for Pipe Corrosion Protection**

Polyethylene sheeting conforming to AWWA C-105, Class C Black with minimum nominal thickness of 0.008 inches (8 mils).

Furnish tape for polyethylene sheeting that is 2-inch wide, black tape with rubber adhesive and minimum 8 mil polyethylene backing.

## **B.5 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

## **B.6 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

## **C Construction**

Water distribution system utility owner is City of Wauwatosa. Contact Adam Florin (Phone (414) 471-8480 Ext. 5915) for coordination of work and operation of existing water system components.

All shutdowns shall be coordinated with the utility owner and minimum 7 calendar days' notice given.

Contractor shall prepare a detailed time schedule and plan for placing the proposed water valves in service. Contractor shall confirm that the proposed water main has passed two bacteriological tests prior to placing in service.

All valves and hydrants shall be operated by City of Wauwatosa staff only. City of Wauwatosa shall locate and exercise all isolation and hydrant valves at least 7 calendar days prior to flushing and connection work.

Limit horizontal excavation to sufficient exterior clearance to allow a safe work area for installers.

Where ground water is present in bottom of excavation, remove water by pumping, maintain free of water, and place 12 inches of crushed stone as bedding.

Perform backfilling carefully, bringing fill up evenly on all sides.

### **C.1 General**

Install valve in closed position and according to manufacturer's instructions.

Set valve on solid masonry concrete blocking (16-Inch x 8-Inch x 4-Inch) with long dimension of block perpendicular to water main and level.

Extend bedding and compact up to elevation required to set valve box adaptor over valve.

Set valve box on valve box adaptor. Verify centered location and check installation by applying key over valve nut to verify access and operation. Operating nut shall be oriented towards the centerline of the road.

Place additional bedding material to a minimum depth of 6 inches around valve box and compact to prevent box or adaptor from shifting.

Extend valve box to subgrade and place a sheet of polyethylene over shaft prior to inserting cover to seal box.

Adjustment of valve box to temporary and finished grades will be responsibility of grading or paving contractor.

Coat internal cast iron surfaces with two coats of corrosion resistant coating.

#### **D Measurement**

The department will measure Butterfly Valve, 16-Inch, 20-Inch, and 24-Inch by each valve installed, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Butterfly Valve, 16-Inch	EACH
SPV.0060.17	Butterfly Valve, 20-Inch	EACH
SPV.0060.18	Butterfly Valve, 24-Inch	EACH

Payment is full compensation for furnishing and installing all materials unless denoted otherwise; denoted otherwise in the article City Furnished Water Main Materials; surveying, excavating, backfilling, compacting and testing.

### **51. Fire Hydrant, Item SPV.0060.19; Rotated A.T. Fire Hydrant, Item SPV.0060.20.**

#### **A Description**

This work includes installing city furnished, new hydrants at locations indicated in the drawings, conforming to the City Specifications and SSSW, and as hereinafter provided.

#### **B Materials**

Materials furnished by the city are provide in the City Furnished Water Main Materials article.

All permanent water distribution products shall be manufactured in the USA.

#### **B.1 City Furnished Hydrant Assembly**

All fire hydrants shall fully comply with AWWA STANDARD C-502 latest revisions. Bury depths shall be as shown on the plans, or as needed to suit the site conditions (with approval of the engineer), or 6'-6" minimum. Pumper nozzle elevation shall be 18"-24" above finished grade (soil grade in turf areas, not vegetation grade). The center of the hydrant shall be 4' behind the back of curb unless otherwise noted on the plans or directed by the engineer.

The hydrants shall be designed for 250 psi working pressure and tested to 500 psi hydrostatic pressure test.

The contractor shall check the operation of each hydrant and flow test all new hydrants after installation and interconnections are made. In addition, the contractor shall fully open all new hydrants with all three caps tightened to check for leaks (i.e., pressure test), then fully close the hydrant and loosen all caps.

The contractor shall make any necessary repairs or replace defective hydrants due to contractor installation and shall conduct the flow testing so as to disturb the surrounding area as little as possible. The contractor must check the grade in the area to ensure that no soft spots in the grade have been created. Soft areas shall be stabilized or replaced immediately. All testing shall be performed in the presence of and approved by the engineer.

The hydrants shall be of the traffic model design consisting of a breakaway safety flange and a safety sleeve coupling. The design shall permit a 360° rotation of the upper nozzle section, or any increment thereof, in any direction. The nozzle placement shall not be restricted by bolt hole placement.

Hydrants shall be designed so that an extension may be added to installed hydrants. All extensions shall be made for insertion below the breakaway flange, and shall be available in increments of 6 inches, beginning with 6-inch length.

All hydrants shall have two 2-½ inch hose nozzles and one 4-½ inch pumper nozzle with National Standard threads, with all at the same elevation and the center of the pumper nozzle at least 18 inches from the bury line.

Outlet nozzles shall be made of bronze and be fastened into the nozzle section by mechanical means or caulking. All outlet nozzles shall be safeguarded against blowing out. For screwed-in outlet nozzles, a pin or other method shall be used to prevent the outlet nozzle from turning or backing out. Screwed-in outlet nozzles shall use "O" rings for pressure seals. Nozzle threads shall be National Standard.

The hydrant shall be furnished with a 6-inch D-150 mechanical joint shoe of the enlarging type designed to accommodate the pipe material shown on the plans. Shoe bolts and nuts shall be corrosive resistant or 300 Series 18-8 stainless steel or coated, corrosion resistant bolts. The inlet connection shall be 6 inch mechanical joint complete with accessories including gland, gaskets, and corrosion resistant nuts and bolts.

Hydrants shall have a minimum valve opening of 5-¼ inch diameter. The hydrant valve shall be reversible and designed to close with hydrostatic line pressure. The valve shall be faced with a suitable yielding material. The hydrant valve assembly shall be made of bronze and shall thread into a bronze bushing or drain ring. The valve assembly shall include a drain valve to drain the hydrant automatically each time it is operated. The drain way and cross arm must be constructed of bronze. Lower threads of the operating rod shall be protected by a cap-nut. The main valve and seat ring shall be removable through the upper barrel from above ground without disassembling the ground line flanges. The interface between the ferrous and non-ferrous surfaces shall be coated with anti-seize material. The hydrant shall be equipped with a positive operating drain valve to drain the hydrant when the main valve is closed. The drain valve shall be designed to close when the main valve is opened.

All hydrants shall be of compression type main valve closing with water line pressure.

Hydrants shall turn counterclockwise (left) to open.

All hydrants shall have all bronze 1-½ inch point to flat pentagon shaped operating nut, turn left to open, and shall have 1-½ inch pentagon shape nozzle caps and pumper caps. All operating nuts shall be provided with an internal metal weather shield to protect the operating nut from freezing.

Hydrants shall be of dry top design with its own lubricating system located in the bonnet which lubricates the upper stem threads each time the hydrant is operated. Lubricant shall be nontoxic and provide proper lubrication for a temperature range of -30° F to +120° F.

All threaded and metal to metal bearing surfaces in the bonnet shall be sealed away from the line pressure by no less than two "O" rings. The upper stem shall be provided with a stop.

The top section of the hydrant shall be primed and painted with a rust inhibitive industrial urethane enamel such as Pennsbury Setter Red No. 9050 or Rustoleum Fire Hydrant Red applied over a base of #1069 Rustoleum Primer, or an approved equal. All exterior parts of the hydrant top section shall be painted as described above.

Cor-Blue corrosion resistant, coated bolts and nuts are required at all locations which will be below ground level under normal conditions. With approval of the engineer, 300 Series 18-8 stainless steel nuts and bolts may be used. Above ground portions shall have the appropriate grade of stainless steel fastener.

Fire Hydrants shall have component parts cast, machined, assembled, and tested in the USA.

## **B.2 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

Aggregate Slurry Bedding according to Section 8.43.8 of the SSSW.

**B.3 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Water distribution system utility owner is City of Wauwatosa. Contact Adam Florin (Phone (414) 471-8480 Ext. 5915) for coordination of work and operation of existing water system components.

All shutdowns shall be coordinated with the utility owner and minimum 7 calendar days' notice given.

Contractor shall prepare a detailed time schedule and plan for placing the proposed water valves in service. Contractor shall confirm that the proposed water main has passed two bacteriological tests prior to placing in service.

All valves and hydrants shall be operated by City of Wauwatosa staff only. City of Wauwatosa shall locate and exercise all isolation and hydrant valves at least 7 calendar days prior to flushing and connection work.

**C.1 General**

According to Wisconsin Statute 82.0175, "Damage to Transmission Facilities," Excavator, as defined in 182.0175(1)(bm), shall be solely responsible to provide advance notice to "Diggers Hotline, Inc." (800) 242-8511 not less than three working days prior to commencement of any excavation, as defined in the statute, required to perform work contained in this project; and further, excavator shall comply with all other requirements of this statute relative to Excavation.

Before beginning excavation of trench, contractor shall uncover existing water main to which new hydrant tee and lead piping is to connect to verify line, grade and connection required.

**C.2 Installation of Hydrant Assembly**

Provide hydrants with independent support of minimum 16-Inch x 8-Inch x 4-Inch solid block or 3000 psi formed concrete pad. Connect to water distribution system with fittings, valves and pipe under separate items.

Place crushed clear stone below base of hydrant to 6 inches above drain holes in hydrant stem.

Set hydrant plumb and centerline of hydrant vertical. Solidly buttress hydrant against trench wall.

Locate hydrant at municipal standard distance behind face of curb and set lowest hose connection at utility standard dimension above proposed finished grade.

**D Measurement**

The department will measure Fire Hydrant/Rotated A.T. Fire Hydrant by each individual hydrant assembly installed, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.19	Fire Hydrant	EACH
SPV.0060.20	Rotated A.T. Fire Hydrant	EACH

Payment is full compensation for furnishing and installing all materials unless denoted otherwise in the article City Furnished Water Main Materials; surveying, excavating, backfilling, compacting and testing.

**52. Hydrant Removal, Item SPV.0060.21**

**A Description**

This special provision describes removing existing hydrants and capping hydrant leads.

**A.1 General**

Perform work under these items according to the details as shown on the plans and the requirements of the City of Wauwatosa.

**B Materials**

All permanent water distribution products shall be manufactured in the USA.

**B.1 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

Aggregate Slurry Bedding according to Section 8.43.8 of the SSSW.

**B.2 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec section 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**B.3 Fittings**

All fittings shall be cement lined, ductile iron compact fittings furnished with mechanical joints conforming to ANSI/AWWA C153 and C111, according to section 8.22.0 of the SSSW and coated according to section 8.18.3 of the SSSW. All fittings shall be 350 psi rated water working pressure. Megalug retainer glands shall be used on all fittings. Glands shall be specifically rated for the main and lead material which is being used. All fittings shall be set and buttressed with concrete and/or hardwood blocks.

**C Construction**

Unless shown otherwise, backfill all water main excavations with granular backfill.

Consolidate all backfill by mechanical compaction per specification 2.6.14(B) of the SSSW. Per specification, the initial compacted lift shall be 2 feet, and the specification shall be modified to read, "each subsequent compacted lift of material shall be 1 foot". Costs are to be included in the unit price bid for the water main. Settling the trench by flooding the backfill will not be allowed.

**D Measurement**

The department will measure Hydrant Removal as each individual hydrant, acceptably removed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Hydrant Removal	EACH

Payment is full compensation for removing the existing hydrant and placing all materials, including surveying, excavation, pipe bedding, backfill and testing.

**53. Cut-In Hydrant, Item SPV.0060.22.**

**A Description**

This special provision describes the installation of Cut-In Hydrant at Station 5+01.66, 0.00' RT (Station 152+82.08, 57.03' RT)

**B Materials**

Materials furnished by the city are found in Article City Furnished Water Main Materials article.

All permanent water distribution products shall be manufactured in the USA.

Use materials conforming to Chapter 8.18 of the SSSW and as hereinafter provided, and as supplemented as follows:



Furnish water main pipe and fittings as specified under Water Main bid items, hydrants as specified in Fire Hydrant bid item, valves as specified in Resilient Wedge Gate Valve bid items, and as specified in drawings.

**C Construction**

Use methods that conform to Chapter 4 and 6 of the SSSW and supplemented as follows:

Install at locations designated in the drawings.

**D Measurement**

The department will measure Cut-In Hydrant by each individual hydrant assembly installed, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.22	Cut-In Hydrant	EACH

Payment is full compensation for providing surveying; excavating, for sheeting and shoring; removal of 16-inch section of pipe for the installation of cut-in tee; for forming foundation; for laying pipe; for installing all valves and fittings; for mechanical joint restraint; for concrete base, buttresses, and anchors; for sealing joints and making connections to new or existing facilities; for pressure testing, flushing and disinfection; for providing granular backfill material, including bedding material; for backfilling; for removing sheeting and shoring; and for cleaning out the site of the work.

**54. Jacking Pit, Item SPV.0060.23; Receiving Pit, Item SPV.0060.24.**

**A Description**

This special provision describes the installation of Jacking Pit and Receiving Pit.

**B Materials**

**B.1 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec section 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

The bore pit and receiving pit shall be installed at the location and size as shown on drawings.

Use methods that conform to Chapter 6 of the SSSW.

**D Measurement**

The department will measure Jacking Pit and Receiving Pit as each, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.23	Jacking Pit	EACH
SPV.0060.24	Receiving Pit	EACH

Payment is full compensation for furnishing and placing all materials, surveying, including pavement sawing, pavement removal, excavation and backfill, for installation and removal of sheeting and shoring, for temporary surface restoration.

- 55. Water Main Connection, 6-inch, Item SPV.0060.25;  
Water Main Connection, 8-inch, Item SPV.0060.26;  
Water Main Connection, 12-inch, Item SPV.0060.27;  
Water Main Connection, 16-inch, Item SPV.0060.28;  
Water Main Connection, 20-inch, Item SPV.0060.29.**

**A Description**

This special provision describes the connection of proposed water main to existing water main as shown on the plans. Perform this work according to the SSSW, and as hereinafter provided and these special provisions.

**B Materials**

Materials furnished by the City are found in Article City Furnished Water Main Materials article.

All permanent water distribution products shall be manufactured in the USA.

**B.1 General**

Water main specified as restrained joint, shall be restrained joint PVC pipe CR-900 DR18, conforming to AWWA C-900, ASTM D-3139 and ASTM F-477 with fittings conforming to AWWA C153 and C111.

Contractor to provide all necessary information for furnished steel and iron items to comply with Wisconsin Department of Transportation DT2249, "Utility's Certificate of Compliance for Steel and Iron Items".

**B.2 Couplings**

The contractor shall supply a transition coupling at every permanent connection to the existing water system. The coupling shall be style 501 straight barrel fusion epoxy transition coupling as manufactured by Romac Industries Incorporated or Dresser.

The coupling shall consist of center ring two end rings gasket and nuts and bolts to complete the assembly.

Center ring shall be ductile iron per ASTM A536, Grade 65-45-12 with a yellow fusion epoxy coat.

End rings shall be ASTM A356 Grade 65-45-12 color coded for the pipes that are being connected.

Gaskets shall be SBR per ASTM D2000 MBA710 for water and sewer.

Nuts and bolts shall be track head bolts heavy hex nuts rolled thread, stainless steel material for working pressures up to 260 psi.

**B.3 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

**B.4 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to Section 305 Dense Graded Base of the WisDOT Standard Specifications for Road and Structure Construction, latest version.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Construct each cut in connection to existing 6, 8, 12, 16 or 20-inch cast iron or concrete water main including spool pieces, fittings, material adaptor fittings, temporary plugs, air vents, excavation shoring, backfill, and restoration.

**D Measurement**

The department will measure Water Main Connection (Size) as each connection, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Water Main Connection, 6-inch	EACH
SPV.0060.26	Water Main Connection, 8-inch	EACH
SPV.0060.27	Water Main Connection, 12-inch	EACH
SPV.0060.28	Water Main Connection, 16-inch	EACH
SPV.0060.29	Water Main Connection, 20-inch	EACH

Payment is full compensation for all surveying; excavating, for sheeting and shoring; for forming foundation; for laying pipe; for removing valves; for installing all valves, air vents, and fittings, unless denoted otherwise in the article City Furnished Water Main Materials; for concrete base, buttresses, and anchors; for mechanical joint restraint; for bulkheading and abandoning existing water mains; for sealing joints and making connections to new or existing facilities; for testing; for providing granular backfill material, including bedding material; for backfilling; for removing sheeting and shoring; and for cleaning out the site of the work.

## 56. HWY 100 Water Main Removal & Reconnect, Item SPV.0060.30.

### A Description

This special provision describes the water main removal and reconnection of proposed water main at Water Main Station 151+00 as shown on the plans. Work will take place in the intersection of HWY100 and North Avenue under temporary traffic shutdown. Traffic flow must resume as soon as possible.

Perform this work according to the SSSW, and as hereinafter provided and these special provisions.

### B Materials

All permanent water distribution products shall be manufactured in the USA.

#### B.1 General

Furnish all fittings (restrained joint and standard) required for installation on this project. Water main specified as restrained joint, shall be restrained joint PVC pipe CR-900 DR18, conforming to AWWA C-900, ASTM D-3139 and ASTM F-477 with fittings conforming to AWWA C153 and C111.

Contractor to provide all necessary information for furnished steel and iron items to comply with Wisconsin Department of Transportation DT2249, "Utility's Certificate of Compliance for Steel and Iron Items".

#### B.2 Couplings

The contractor shall supply a transition coupling at every permanent connection to the existing water system. The coupling shall be style 501 straight barrel fusion epoxy transition coupling as manufactured by Romac Industries Incorporated or Dresser.

The coupling shall consist of center ring two end rings gasket and nuts and bolts to complete the assembly.

Center ring shall be ductile iron per ASTM A536, Grade 65-45-12 with a yellow fusion epoxy coat.

End rings shall be ASTM A356 Grade 65-45-12 color coded for the pipes that are being connected.

Gaskets shall be SBR per ASTM D2000 MBA710 for water and sewer.

Nuts and bolts shall be track head bolts heavy hex nuts rolled thread, stainless steel material for working pressures up to 260 psi.

#### B.3 Bedding and Cover: shall be one of the following.

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

#### B.4 Trench Backfill:

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

## C Construction

Remove the existing 20-inch x 20-inch tee, existing 20-inch x 16-inch reducers and 16-inch sleeves and reconnect to the existing 16-inch water main including spool pieces, fittings, material adaptor fittings, temporary plugs, air vents, excavation shoring, backfill, and restoration of early strength concrete, asphalt pavement.

## D Measurement

The department will measure HWY 100 Water Main Removal & Reconnect as each connection, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.30	HWY 100 Water Main Removal & Reconnect	EACH

Payment is full compensation for all surveying; traffic control; sawcutting of pavement; excavating, for sheeting and shoring; for removal of existing 20-inch tee connection; for forming foundation; for laying pipe; for fittings; for concrete base, buttresses, and anchors; for sealing joints and making connections to new or existing facilities; for testing; for providing slurry backfill material, including bedding material; for backfilling; for removing sheeting and shoring; for restoration, and for cleaning out the site of the work.

## 57. Temporary Water Main Connection, Item SPV.0060.31.

### A Description

This special provision describes the connection of a temporary connection to allow for water main construction as shown on the drawings. Perform this work according to the SSSW, and as hereinafter provided and these special provisions.

Two temporary connections are required.

Phase 1: Between phase 1 and phase 2 provide a temporary 12-inch water main connection to the existing 12-inch water main on the north side of North Avenue (approximately Station 50+75). This connection removes service from the existing 20-inch water main and allows for the abandonment connection of the 16-inch water main (approximately Station 5+30).

Phase 1a: Provide a temporary 12-inch water main connection to the existing 12-inch water main on the north side of North Avenue (approximately Station 41+08) utilizing the proposed hydrant lead. This connection provides fire protection and water service until phase 2 water main construction is completed.

### B Materials

All permanent water distribution products shall be manufactured in the USA.

#### B.1 General

Furnish all fittings (restrained joint and standard) required for installation on this project. Unless specified otherwise, water main shall be push-on rubber gasket joint ductile iron. Water main specified as restrained joint, shall be restrained joint PVC pipe CR-900 DR18, conforming to AWWA C-900, ASTM D-3139 and ASTM F-477 with fittings conforming to AWWA C153 and C111.

Contractor to provide all necessary information for furnished steel and iron items to comply with Wisconsin Department of Transportation DT2249, "Utility's Certificate of Compliance for Steel and Iron Items".

#### B.2 Couplings

The contractor shall supply a transition coupling at every permanent connection to the existing water system. The coupling shall be style 501 straight barrel fusion epoxy transition coupling as manufactured by Romac Industries Incorporated or Dresser.

The coupling shall consist of center ring two end rings gasket and nuts and bolts to complete the assembly.

Center ring shall be ductile iron per ASTM A536, Grade 65-45-12 with a yellow fusion epoxy coat.

End rings shall be ASTM A356 Grade 65-45-12 color coded for the pipes that are being connected.

Gaskets shall be SBR per ASTM D2000 MBA710 for water and sewer.

Nuts and bolts shall be track head bolts heavy hex nuts rolled thread, stainless steel material for working pressures up to 260 psi.

**B.3 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

**B.4 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec section 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Construct each temporary connection including spool pieces, fittings, material adaptor fittings, temporary plugs, air vents, excavation shoring, backfill, and restoration.

**D Measurement**

The department will measure Temporary Water Main Connection as each temporary 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.0060.31	Temporary Water Main Connection	EACH

Payment is full compensation for all surveying; excavating, for sheeting and shoring; for forming foundation; for laying pipe; air vents, and fittings; for concrete base, buttresses, and anchors; for bulkheading and abandoning existing water mains; for sealing joints and making connections to new or existing facilities; for all testing; for providing granular backfill material, including bedding material; for backfilling; for removing sheeting and shoring; and for cleaning out the site of the work.

- 58. Water Lateral, 1-1/2-inch, Short (0ft-45ft), Item SPV.0060.32;**
- Water Lateral, 1-1/2-inch, Long (45ft-90ft), Item SPV.0060.33;**
- Water Lateral, 2-inch, Short (0ft-45ft), Item SPV.0060.34;**
- Water Lateral, 2-inch, Long (45ft-90ft), Item SPV.0060.35.**

**A Description**

This work includes providing and installing water service line and control valve at locations indicated in the plans, conforming to the SSSW and as hereinafter provided.

Tracer wire shall be included on all water services.

**B Materials**

Materials furnished by the city are found in the City Furnished Water Main Materials article. The contractor shall furnish all service boxes, fittings, adapters, piping, and service insulators required for installation on this project to the requirements of the City specifications.

All permanent water distribution products shall be manufactured in the USA.

**B.1 General**

Materials and construction shall conform to File No. 52 of the SSSW for connecting and replacing original services or File No. 51 for new services with the exception that an approved tapping sleeve shall be used. Reduced Port corporation stops, and curb stops shall be "ball valve type" with 300 psi rated working pressure. Curb stop boxes shall be Minneapolis Style.

Unless otherwise noted on the plans, services shall be High Density Polyethylene (HDPE) SDR 9, copper tube size (CTS) conforming to AWWA C-901. Sizes of taps, saddles, corporation stops, and curb stops shall match the size indicated on the plans. All fittings shall be specifically rated for the appropriate water main material and/or polyethylene services (as applicable), and use engineer approved compression fittings with stainless steel stiffeners for the services. The contractor shall provide frost protection as shown on the plans, or in locations as described in section 610.2.02 B of these City Specifications as incidental to the work.

All materials shall be manufactured in the USA.

All bedding, cover and backfill materials shall meet City Specifications and be approved by the City of Wauwatosa.

## **B.2 Corporation and Curb Stops**

Corporation Stops shall be a reduced port ball valve with AWWA/CC taper thread inlet by compression quick joint coupling outlet for CTS. Curb Stops shall be a reduced port ball valve compression quick joint coupling for CTS on either end. Corporation Stops, Curb Stops and couplings for nonmetallic services require tubular stainless steel insert stiffeners.

Service line compression quick joint connector 1-1/2 inch to 1-1/2 inch fitting manufacturers:

Ford Model C44-55-Q-NL

AY McDonald 74758Q

Equal as approved by engineer

1-1/2 inch HDPE SDR9 or copper tubing to lead fitting combination manufacturers:

Ford Model Q22-44 Coupling and C04-45 Adapter

AY McDonald Model 74758C-67 Coupling and 74755Q Adapter

Equal as approved by engineer

3-inch Minneapolis Style curb stop box manufacturers:

Ford Model EM2-65-56

AY McDonald 5614A

Equal as approved by engineer

All water service (re)connections 2-inch and smaller, as well as air vents, for metallic and nonmetallic pipe shall be wet tapped under pressure using a one piece, double bolt, stainless steel service saddle clamp conforming to Smith-Blair 372, with AWWA/CC taper thread or equal as approved in writing by the engineer. Service saddles shall be furnished by the contractor as incidental to the service.

## **B.3 Tracer Wire**

In open cut/trench construction, all nonmetallic water mains, leads and services shall be installed with a minimum #12 AWG copper clad steel, blue coated, 30 mil minimum HDPE insulated, high strength (minimum 450 lb. break load) tracer wire intended for direct bury, according to Chapter 2.11.2 of the SSSW, APWA standards, and the City Specifications, as incidental to the cost of the pipe.

For trenchless installation, all nonmetallic water mains, leads, and services shall be installed with tracer wire as noted above, except it shall be aircraft cable, nylon coated, stainless steel, and 3/8-inch diameter.

Except where the engineer has given written approval for spliced-in connections, tracer wire systems shall be as continuous as practicable. Connections of tracer wire shall be in a low voltage, lockable, waterproof, underground, dielectric silicone filled connector, and shall be installed in such a manner as to prevent any exposure of uninsulated wire. Copperhead SnakeBite direct bury lug connector 3WB-01 or engineer approved equal shall be included in the material submittals. No friction fit, twist-on, or taped connectors are allowed. No looping, wrapping, or coiling of tracer wire is allowed. The wire shall be placed along the entire length of the pipe and taped on the top of the pipe at minimum 10 foot intervals. No spray coatings or taped coatings for the wire are allowed. No connections to conductive pipes, fittings, glands, stand pipes, sleeves, or any other non-tracer wire material are allowed – the entire conductive tracer system shall only be constructed of tracer wire and tracer wire connectors as described above. At the point of connection between metallic water main and any non-metallic water main, the mainline tracer wire shall go to ground using a connection approved in writing by the engineer to a Copperhead drive-in magnesium grounding anode rod, part # ANO-12, or equal as approved in writing by the engineer, with

20 feet of #12 AWG copper clad steel wire. Installation of the grounding anode rod shall be directly beneath and in-line with the water main. Excess wire from the grounding anode shall be trimmed to an appropriate length and not coiled.

All mainline dead-ends for non-metallic water mains shall go to ground using the same method described above.

i. TESTING

- All new tracer wire installations shall pass testing by locating them using typical 512Hz low frequency line tracing equipment, witnessed by the contractor and the engineer before full payment for all piping will be made. Continuity testing in lieu of actual line tracing shall not be accepted.

ii. TERMINATION/ACCESS

- Wire shall be brought to the surface at all hydrants and curb stops, unless otherwise directed by the engineer. At hydrants, wire shall be brought to the surface inside a 2" PVC Schedule 40 vertical sleeve (minimum 3 foot bury depth) that is opposite the pumper nozzle on the back of the hydrant, with at least 24 inches of excess wire to allow for future locating and maintenance. A Tracer Wire access box by Bingham & Taylor, Inc. #P2B200NFG, Copperhead SnakePit #LD14BTP, or approved equal must be visible and accessible and be set to no more than 3 inches above finish grade.
- For curb stops, the wire shall be run directly on the outside of the stand pipe all the way to the surface, and a MINIMUM 6 inches of excess "pigtail" coiled below the cap of the stand pipe. Wire shall NOT be terminated in mainline, branch service, or hydrant valve boxes unless otherwise directed in writing by the engineer.
- For mains without services or hydrants, access locations shall use tracer wire access boxes as approved in writing by the engineer.

**B.4 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

**B.5 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to Section 305 Dense Graded Base of the WisDOT Standard Specifications for Road and Structure Construction, latest version.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Water services shall be installed at locations indicated in the plans.

Connection to existing water main shall be a "wet tap" connection, complete with approved City of Wauwatosa saddle fitting.

Where required and noted "R.O.S." on the plan(s), the contractor shall replace the original service as shown on drawings. The contractor shall furnish and install the HDPE service piping, corporation stop, and all fittings required. The contractor shall install a new curb stop with the required adapters and fittings in the existing water service piping. The new curb stop shall be set approximately 3 inches from the property line or 18 inches from the building face in the open street or as noted on the plan. The new water service shall extend from the new corporation stop at the water main to the new curb stop. The contractor shall abandon the existing piping no longer in service, remove the old service box and install a new service box with the new curb stop.

The contractor shall shut off the water main to be altered and provide temporary hose connections to affected services as required.

Water laterals shall not have joints and shall be continuous.

Where designated on the plans or ordered by the engineer, the contractor shall install the new or replacement tap water service piping by an approved trenchless method, such as drilling, boring, jacking, auger boring, or fluid boring. The trenchless method used shall be capable of installing the water service piping horizontally and level with the water main to within a 12 inch radius of the target at the proposed location of the new curb stop.

The contractor shall exercise care in locating and excavating, shoring and bracing the starting and recovery pits to assure underground and aboveground structures and trees are not damaged by their operations. Where a trenchless method of installation is required because of the necessity to protect a tree or as directed on the plans, the contractor shall not drive heavy equipment or store materials within a radius of 5 feet from tree trunks unless the area is paved or protected from soil compaction by the use of planks or similar materials. To minimize damage to the tree's root zone during the installation of the water service piping no excavation shall be made within the following limits:

<u>Tree Diameter (In.) (@ 4.5 ft. Above Ground)</u>	<u>No Excavation Limits Distance (ft.) from Trunk</u>
0 - 2	1
3 - 4	2
5 - 9	5
10 - 14	10
15 - 19	12
Over 19	15

The contractor may encroach on the above limits if the water main to which the water service piping will be connected, or the house side of the existing city sidewalk is within the specified no excavation zone. The contractor shall keep these excavations as small as possible and shall contact the engineer at least three days prior to starting the installation so they may notify the City Forester.

The city has obtained or is in the process of obtaining right-of-entry permits from affected property owners in order for the contractor to complete their work on private property. All trees, bushes, shrubs, lawn, walk, driveway, etc. on private property damaged by the contractor shall be repaired or replaced by the contractor at no cost to the private property owner, and to the satisfaction of the engineer. Costs for this work should be included in the bid price for the water service piping. No additional compensation will be made.

Existing curb stops shall be abandoned by the contractor by removing only the top section of the service box and backfilling the remaining hole with suitable material. The cost of this abandonment shall be included in the price for an ROS or COS. Existing services which are replaced shall be disconnected as detailed in the standard specs.

The contractor will be responsible for all surveying required to layout and locate the water services.

Provide and install new and approved curb stop and box meeting City Specifications.

Provide and install new and approved service valve and box meeting City Specifications.

Provide and place approved bedding sand and cover under and above water service to depths indicated in the plans. Provide and install crushed concrete backfill to depths indicated. Compact bedding sand and cover, and crushed concrete backfill to 95% modified proctor density.

#### **D Measurement**

The department will measure Water Lateral Reconnection 1 ½-inch and 2-inch per each, acceptably completed from the center of the water main to the curb stop. The lateral pipe used on the house side of the curb stop for reconnection to the existing private service line is incidental to the Water Lateral Reconnection. The cost of all taps shall be included in the price bid per each.



## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.32	Water Lateral, 1 1/2-Inch, Short	EACH
SPV.0060.33	Water Lateral, 1 1/2-Inch, Long	EACH
SPV.0060.34	Water Lateral, 2-Inch, Short	EACH
SPV.0060.35	Water Lateral, 2-Inch, Long	EACH

Payment is full compensation for furnishing and installing all materials, unless denoted otherwise in article City Furnished Water Main Materials; surveying, excavation, pipe bedding, backfill, tracer wire, taps, for pressure testing, flushing and disinfection, tracer wire connectivity testing, fittings, corporations, curb stops, and curb boxes.

## 59. Permanent Air Release Assembly, Item SPV.0060.36.

### A Description

This special provision describes the installation of the Permanent Air Release Assembly.

### B Materials

All permanent water distribution products shall be manufactured in the USA.

Use materials conforming to Chapter 8.18 and 8.22 of the SSSW and as supplemented as follows:

Furnish copper water service pipe, corporation stop, curb stop, curb box, fittings, pipe bedding material and backfill as specified in plans.

All water service (re)connections 2-inch and smaller, as well as air vents, for metallic and nonmetallic pipe shall be wet tapped under pressure using a one piece, double bolt, stainless steel service saddle clamp conforming to Smith-Blair 372, with AWWA/CC taper thread or equal as approved in writing by the engineer. Service saddles shall be furnished by the contractor as incidental to the service.

#### B.1 Bedding and Cover: shall be one of the following.

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

#### B.2 Trench Backfill: shall be one of the following.

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

### C Construction

The price bid for the Permanent Air Release Assembly shall include supplying the copper service pipe and the cost of installation and any incidentals required to complete the installation of the air release assembly as shown on the plan.

Install at locations designated in the drawings.

### D Measurement

The department will measure the Permanent Air Release Assembly by each unit, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.36	Permanent Air Release Assembly	EACH

Payment is full compensation for furnishing and placing all materials, including surveying, excavation, pipe bedding, backfill and testing.

**60. Valve Box Removal, Item SPV.0060.37.**

**A Description**

This special provision describes the removal of existing valve boxes.

**A.1 General**

All permanent water distribution products shall be manufactured in the USA.

Perform work under these items according to the details as shown on the plans and the requirements of the City of Wauwatosa.

**B Materials**

All bedding, cover and backfill materials shall meet City Specifications and be approved by the City of Wauwatosa.

**B.1 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

**B.2 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Unless shown otherwise, backfill all water main excavations with granular backfill.

Consolidate all backfill by mechanical compaction per specification 2.6.14(B) of the SSSW. Per specification, the initial compacted lift shall be 2 feet, and the specification shall be modified to read, "each subsequent compacted lift of material shall be 1 foot". Costs are to be included in the unit price bid for the water main. Settling the trench by flooding the backfill will not be allowed.

**D Measurement**

The department will measure Valve Box Removal per each, acceptably removed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.37	Valve Box Removal	EACH

Payment is full compensation for furnishing and placing all materials, including surveying, excavation, pipe bedding and backfill.

**61. Valve and Valve Manhole Removal, Item SPV.0060.38.**

**A Description**

This special provision describes removing the existing manhole cover and a minimum of top 3 feet of the manhole. Unless otherwise noted on drawings removal of the valve manhole shall include the existing valve and valve manhole, and capping pipe ends.

**A.1 General**

Perform work under these items according to the details as shown on the plans and the requirements of the City of Wauwatosa.

**B Materials**

All permanent water distribution products shall be manufactured in the USA.

All bedding, cover and backfill materials shall meet City Specifications and be approved by the City of Wauwatosa.

**B.1 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

**B.2 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to Section 305 Dense Graded Base of the WisDOT Standard Specifications for Road and Structure Construction, latest version.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Punch a hole in the bottom of the manhole. Remove the manhole cover and the top 3ft of manhole.

Unless shown otherwise, backfill manhole with granular backfill.

Consolidate all backfill by mechanical compaction per specification 2.6.14(B) of the SSSW. Per specification, the initial compacted lift shall be 2 feet, and the specification shall be modified to read, "each subsequent compacted lift of material shall be 1 foot". Settling the trench by flooding the backfill will not be allowed.

**D Measurement**

The department will measure Valve and Valve Manhole Removal per each, acceptably removed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.38	Valve and Valve Manhole Removal	EACH

Payment is full compensation for furnishing and placing all materials, including surveying, excavation and backfill, caps and abandonment of the manhole.

- 62. Water Main Abandonment, 6-inch, Item SPV.0060.39;**
- Water Main Abandonment, 8-inch, Item SPV.0060.40;**
- Water Main Abandonment, 12-inch, Item SPV.0060.41;**
- Water Main Abandonment, 16-inch, Item SPV.0060.42;**
- Water Main Abandonment, 20-inch, Item SPV.0060.43.**

**A Description**

Caps or plugs required to abandon water main.

Perform the work according to the plans, the SSSW, and as hereinafter provided and these special provisions.

**B Materials**

All permanent water distribution products shall be manufactured in the USA.

All materials and work required to abandon existing water main will conform to the SSSW.

The contractor shall abandon the water main by use of a ductile iron cap or minimum 12-inch length 4,000 psi concrete bulkhead.

**B.1 Bedding and Cover: shall be one of the following.**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

**B.2 Trench Backfill: shall be one of the following.**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to standard spec 305 Dense Graded Base.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

Abandon water main according to Section 4.14.0 of the SSSW. Water main abandonment shall be capped or plugged. Field verify water main has been decommissioned prior to abandonment.

**D Measurement**

The department will measure Water Main Abandonment (Size) as each, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.39	Water Main Abandonment, 6-Inch	EACH
SPV.0060.40	Water Main Abandonment, 8-Inch	EACH
SPV.0060.41	Water Main Abandonment, 12-Inch	EACH
SPV.0060.42	Water Main Abandonment, 16-Inch	EACH
SPV.0060.43	Water Main Abandonment, 20-Inch	EACH

Payment is full compensation for providing all materials including all excavation and abandoning existing water main with caps or plugs; for providing backfill material; for surveying.

**63. Pull Boxes, 17x30x18-Inch, Item SPV.0060.44.**

**A Description**

This work shall consist of furnishing and installing electrical pull boxes according to standard spec 653 of the Standard Specifications, the plan details, and as herein provided.

**B Materials**

Lighting pull boxes shall be a rectangular composite enclosure with sloping (flared) sides and nominal 17" wide X 30" long X 18" depth size as shown on the plans. The composite boxes shall be constructed of polymer concrete and reinforced by a heavy-weave fiberglass. The pull boxes shall be rated for 15,000 lbs. over a 10" X 10" area at a temperature of -50°F (Tier 15 rating). The box shall be furnished with a cover having a "ELECTRIC" logo, skid resistant surface with a minimum coefficient of friction of .5 and concrete gray color. The cover fasteners shall be stainless steel captive 3/8-inch hex head bolts with stainless steel inserts.

Pull Box manufacturer/model:

Newbasis Model FCA173018T-00006

Quazite Model C12173002A/B12173018A

**C Construction**

The pull boxes shall be set flush with the grade or pavement and installed on aggregate per plan details.

**D Measurement**

The department will measure Pull Boxes, 17x30x18-Inch 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 0006.44	Pull Boxes, 17x30x18-Inch	EACH

Lighting pull boxes as measured above, is full compensation for furnishing and installing all materials, including pull box, fusing, crushed aggregate; for excavation, backfill, removal and replacement of associated concrete sidewalk and disposal of surplus materials..

**64. Temporary Lighting, SPV.0060.45.**

**A Description**

This work consists of furnishing temporary lighting for the duration of the construction project.

**B Materials**

Furnish and install temporary wood poles. Temporary wood poles shall be 30'-0" above finished grade with 10" below finished grade. Temporary Lighting shall be a combination of existing lighting fixtures and new light fixtures. Install temporary wiring aerially as required to maintain existing circuits for W. North Avenue and side streets as identified on temporary lighting plan. See plans for details.

**C Construction**

The contractor shall keep existing illumination systems, their approved temporary replacements, or temporary construction lighting in effective operation for the benefit of the traveling public during construction progress, except when shutdown is permitted to allow alteration or final removal of the systems. Temporary lighting shall provide lighting levels equal to or exceeding the existing lighting levels and quality by using the same luminaire quantity and type as existing until the new lighting system is energized. Lighting system shutdowns shall not interfere with the regular lighting schedule unless otherwise permitted. Shutdown schedules are subject to approval by the engineer.

The contractor shall determine the exact location of existing conduit runs and pull boxes before using equipment that may damage such facilities or interfere with any system.

All circuits to lighting outside of project scope shall stay energized without interruption. If damage is caused by the contractors' operations, damaged facilities shall be repaired or replaced promptly at no additional compensation.

Where roadways are to remain open to traffic and existing lighting systems are to be modified, the existing systems shall be kept in operation until the final connection to the modified circuit is made. The modified circuit shall be complete and operating by nightfall of the same day the existing system is disconnected.

The contractor shall keep temporary construction lighting installations in effective operation until they are no longer required for the protection of the traveling public.

Reusable equipment damaged when the contractor is removing and salvaging existing material shall be replaced or repaired at the contractor's expense.

Existing installations to be removed shall be kept in operation until the new installations are ready to be turned on or as directed.

Existing materials which interfere with, or which are incompatible with new construction, shall be removed or salvaged in the order directed, as specified or approved, before completion of the new construction.

The contractor shall notify the engineer at least five calendar days in advance of removing or salvaging the existing materials. Material damaged by the removal and salvage operations shall be repaired or replaced at the contractor's expense.

**D Measurement**

The department will measure Temporary Lighting as a single unit for the contract, 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.0060.45	Temporary Lighting	EACH

Payment is full compensation for furnishing and maintaining the temporary lighting system for the project.

**65. Lighting Control Cabinet Modified, Item SPV.0060.46.**

**A Description**

The work under this item shall consist of furnishing and installing a street lighting control cabinet.

The lighting control cabinet shall include the NEMA 3R enclosure, panelboard, time clocks, contactors, photocontrol, circuit breakers, wiring and all equipment and materials as shown in the plans. The cabinet with all of its electrical components, wiring and parts shall be listed and labeled by Underwriters Laboratories (UL) 508A or other Nationally Recognized Testing Laboratory as a completely assembled unit.

**B Materials**

All Materials and Methods of Construction shall be according to the applicable provisions of standard spec 656 of the WisDOT Standard Specifications and the following:

All materials furnished for this portion of the work shall be Listed and Labeled by UL or other National Recognized Testing Laboratory.

Enclosure:

Control enclosure shall be manufactured by Bison Pro Fab (800) 825-5805, APX Enclosures (717) 328-9399, or approved equal.

Control enclosure shall be in NEMA-3R made from 12-gauge Type 304 stainless steel. Seams shall be continuously welded and ground smooth. All hardware shall be type 304 stainless steel.

Enclosure shall be free standing with an overall height of 54-inches, a width of 48-inches and a depth of 24-inches. Enclosure shall have a 2-inch wide inside flange at the front, back and sides for anchoring to base. Side and back walls shall be stiffened with two vertical stainless steel equipment mounting rails per wall. The door frame shall be double flanged.

The cabinet top shall be sloped to drain and shall have a drip shield over door. Provide screened vent slots (1/8" X 1") under the cabinet overhang located in the top face above door opening.

Outer door shall be NEMA 3R, 12-gauge stainless steel, with cellular neoprene gasket and a three position door stop rod. Door shall be hinged with a continuous 14 -gauge stainless steel hinge secured with 1/4-20 stainless steel carriage bolts. Provide 3-point latching system with 3/4" diameter stainless steel padlocking handle. Also provide a Corbin No.2 deadbolt lock with two keys.

Enclosure shall have a 0.125-inch thick 5052-H32 aluminum mounting panel at back (interior) of enclosure.

Provide plastic print pocket attached to inside of door.

Main disconnect:

Fusible 200A, 2-pole, 600VAC, NEMA 3R galvanneal, heavy duty with insulated groundable neutral assembly, service ground kit and lockable in ON and OFF positions. Mount directly to back of enclosure. Provide 200A, 600V FRS-R Class RK5 fuses.

Contactors:

The contactors shall be magnetically latched. Construct separate latching/unlatching circuit using 8-pin DPDT relay and socket (120V coil, 10A contacts, pilot light) Square-D KP12P14 or approved equal.

Control Transformer:

240V AC Primary, 120V AC Secondary, 1PH, 3 K0VA, Square-D #3S1F. Furnish Square-D #9080FB1211R fuse block assembly with 15A fuse to protect line side of transformer

Time clock:

The time clock shall be astronomical with non-volatile EEPROM memory, battery backup, -40°F to 155°F operating range, LCD display, daylight saving time and leap year correction. Provide an Intermatic #ET8215C.

**Secondary Load Center:**

Provide circuit breaker enclosure for secondary circuits, Square-D #QO24L70S with one 20A breaker (#QO120) for maintenance circuit, one 15A breaker (#QO115) for photocell circuit, and one #PK0GTA2 Ground Bar.

**Photocell:**

The photocell shall be of the button type and installed in the overhang of the control cabinet. Apply silicone caulk to maintain the integrity of the enclosure. The photocell shall be rated for 120V, 1800W with 30-60 second delay between "on-off" operations and be warranted for five years. Intermatic #K4021C.

**Hand-Off-Auto Switch:**

Square-D #9001-KS43B switch body, #9001-KA1 contact block and #9001 KN760WP nameplate mounted in a one-hole BOX STEEL GRAY 3.504"L X 3.268"W.

**Other Devices:**

Furnish one 120V GFI duplex service receptacle in surface mounted box, and one 120V LED light fixture. Light fixture shall be wall mount type with gasketed vapor tight globe, wire guard, lamp, and on/off switch in surface mounted box.

Duplex GFCI Receptacle: Commercial Grade, GFCI, 20A  
4" SQ Deep Box: Square Welded Metallic Box with GFCI Cover

Vapor Tight Fixture: The light shall be surface mount with guard, 14W, 931 lumens, 4000K LED Econolite #E-VT1L141NG or equal by Acuity or Cooper

Light Switch: Commercial Grade, Single Pole, 20A  
4" SQ Deep Box: Square Welded Metallic Box with Light Switch Cover

**Neutral and Ground Bar - 240V Circuits:**

¼"x4"x12" Copper Bus Bar with Mounting Hardware. Provide copper mechanical lugs, for all conductors to bust bar. Refer to wire size is used on plans to determine appropriate lug sizes quantities with space for future lugs and bar. Provide insulated standoffs for neutral bar.

**Panelboard:**

Panelboard shall include 240/480 volt, 400A Square 'D' panel, 200A main circuit breaker and 40A branch circuit breakers and ground bar as follows:

- Panelboard: (1) – Square-D 400A, 600V, I-Line, #HKA-225-S4
- Ground Bar: (1) - Square D #PK0GTA2
- Main Breaker: (1) – Square-D 2-Pole, 200A, 600V, I-Line, #JGA26200AB
- Circuit Breakers: (6) – Square-D, I-Line two pole, 40A, #FA-24040

**C Construction**

The cables shall be trained in straight horizontal and vertical directions and be parallel next to and adjacent to other cables whenever possible, using cable clamps attached with #10 screw to mounting panel. Adhesive type clamps are not allowed. All equipment shall be mounted panel enclosure unless otherwise indicated. Refer to the Drawings for equipment layout within the cabinet. Cabinet interior shall be clean of all construction debris prior to final acceptance.

**Program timeclocks as follows:**

Lights: Turn on 20 minutes after sunset and off 20 minutes before sunrise. Verify it with the city prior to programming.

**D Measurement**

The department will measure Lighting Control Cabinet Modified 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 0060.46	Lighting Control Cabinet Modified	EACH

Payment is full compensation for furnishing and installing the lighting control cabinet and all electrical components.

**66. 28-Foot Aluminum Light Pole, SPV.0060.47.**

**A Description**

This special provision describes providing and installing 28-foot aluminum light poles.

**B Materials**

Furnish poles from the QPL. Submit a materials list and accompanying certificate of compliance certifying that the poles incorporated into the work conform to the specified design criteria and other contract requirements.

Include hand holes with bolt-n access cover as the standard details show. Provide a grounding L-clip welded directly opposite the hand hole on the inside wall of the pole.

Weld base plates to the pole shaft. Identify the pole type and wall thickness using ½ inch lettering stamped under the hand hole.

Furnish aluminum shims matching the pole material.

Furnish identification plaques as the plans show.

Poles shall be 28' tapered, aluminum poles. Finish shall be satin aluminum.

Wall thickness shall be designed to accommodate pole weight, luminaire, luminaire arm, flag holder with flag, and banner arms with banners. Design shall be according to standard spec 657.2.1.4.

Include 45% flag holder to accommodate 1-Inch flag poles. Flag holder shall have a satin aluminum finish. Flags will be furnished and installed by the city.

Banner arms shall be field applied, furnished and installed by the city.

**C Construction**

28-Foot Aluminum Poles shall be installed in conformance with standard spec 657.3.2.

**D Measurement**

The department will measure 28-Foot Aluminum Light Pole as 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 0060.47	28-Foot Aluminum Light Pole	EACH

Payment for the 28-foot aluminum light poles full compensation for providing poles including grounding lugs and related mounting hardware; for hardware and fittings necessary to install the pole; for leveling shims; and for corrosion prevention.

**67. LED Luminaire, SPV.0060.48;  
Glare Shield House Side, SPV.0060.49;  
Glare Shield Street Side, SPV.0060.50.**

**A Description**

This special provision describes providing and installing luminaires LED luminaires and glare shields.

**B Materials**

**B.1 LED Luminaire**

Leotek Model Number GCJ3-30J-MV-30K-3R-GY-095-PCR7-WL-SC.



Die cast A360.1 Aluminum complete with a cast in technical ring with latch and hinge. The mechanism shall offer tool free access to the inside of the luminaires. And embedded memory retentive gasket shall ensure weatherproofing. Housing shall be round in shape, this housing is made of cast 356 aluminum complete with a water tank grommet. Mechanically assembled to the bracket with four bolts. This suspension system permits for a full rotation of the luminaire in 90 degrees increments.

Basic catalog number only is given for fixtures. Provide caps, suspension units, mounting brackets and/or all other auxiliary parts necessary to make a complete fixture.

Provide street light poles, arms and accessories detailed herein and on the Drawings.

Luminaires must be the type indicated. Fixtures of the same type must be provided by one manufacturer.

Luminaires must be of the types and manufacturers described in the LUMINAIRE REQUIREMENTS section below, with light source, wattage and voltage as indicated.

Luminaire must be UL-listed for wet locations, minimum IP65 rating, and wiring cavity must be field accessible for service or repair needs.

Fully assemble and electrically test luminaires before shipment from factory.

Luminaire Distribution. Correlated Color temperature and Delivered Lumens as listed on the Luminaire Schedule within the specifications.

#### Driver

The LED driver shall be securely mounted inside the fitter, for optimized performance and longevity.

The driver shall be UL Listed.

The driver shall have overload as well as short circuit protection.

The driver shall be a DC voltage output, constant current design, 50/60 HX.

The driver accepts input voltage from 120-277 (MDL). Optional 347-480 (MOH).

The driver shall have a minimum power factor of 0.90.

The driver shall be rated at full load with THO less than 20%.

The driver is dimmable using 0-10V signal.

The luminaire shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection according to IEEE/ANSI C62.41.2 guidelines.

The LED driver shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation.

#### LED's

The LEDs shall be mounted in arrays, on printed circuit boards designed to maximize heat transfer to the heat sink surface.

The LEDs shall be attached to the printed circuit board with not less than 90% pure silver to ensure optimal electrical and thermal conductivity.

The LEDs and printed circuit boards shall be protected from moisture and corrosion by a conformal coating of 1 to 3 mils.

The LEDs and printed circuit board construction shall be environmentally friendly and 100% recyclable. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant.

The LED life rating data shall be determined according to IESNA LM-80.

LED color temperature shall be 3000° Kelvin.

## Optics

The luminaire shall be provided with individual acrylic retractor type optics applied to each LED.

The luminaire shall provide distributions as listed in the luminaire schedule per IESNA classifications. Testing shall be done according to IESNA LM-79.

### LED Performance

The LEDs and LED driver shall operate over a -40 degree F to +122 degree F ambient temperature range.

The high performance white LEDs will have a life expectancy of approximately 70,000 hours with not less than 70% of original brightness (lumen maintenance), rated at 25 degrees C.

The high brightness, high output LEDs shall have a Color Rendering Index greater than or equal to 70.

## Finish

Prior to coating, the luminaire shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse-osmosis water rinsing and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coat. The finish coat shall be an electrostatically applied semi-gloss, super durable polyester powder coat, based on at 400 degrees F to provide a durable color retentive finish.

## **B.2 Glare Shields**

Glare shields shall be from the same manufacturer as the luminaires.

Basis of design shall be glare shields as manufactured by Leotek.

House side glare shields shall be model number HSSJGCJ.

Street side glare shields shall be model number FSSJGCJ.

Shields shall be gray frames with black louvers.

Glare shields shall be snap-on style, capable of being added or removed on site. Factory installation shall not be required.

Glare shields shall be flush mounted.

## **C Construction**

Install street light fixtures and glare shields according to manufacturer's recommendations.

## **D Measurement**

The department will measure LED Luminaire and Glare Shields (Type) as 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 0060.48	LED Luminaire	EACH
SPV 0060.49	Glare Shields House Side	EACH
SPV 0060.50	Glare Shields Street Side	EACH

Payment is full compensation for providing all materials including LED Luminaires and glare shields.

68. **Rectangular Rapid Flashing Beacon System, 100<sup>th</sup> Street Westbound, Item SPV.0060.51;**  
**Rectangular Rapid Flashing Beacon System, 100<sup>th</sup> Street Median, Item SPV.0060.52;**  
**Rectangular Rapid Flashing Beacon System, 100<sup>th</sup> Street Eastbound, Item SPV.0060.53.**

### **A Description**

This work shall consist of furnishing and installing a solar powered rectangular rapid flashing beacon (RRFB) system consisting of multiple assemblies as described herein and as shown in the plans. Each assembly shall be solar powered, and pedestrian activated. The assemblies shall be wirelessly controlled, and multiple units shall be synchronized. This specification is according to requirements contained in FHWA interim approval 1A-21 dated March 20, 2018 for flashing requirements and beacon operation.

### **B Materials**

Furnish a RRFB system with multiple assemblies. Each assembly may consist of, but not limited to, light indications, and electrical components (wiring, solid-state circuit boards, etc.). An assembly may include the following items:

#### **B.1 Light Indications**

Each indication shall be a minimum size of 7" wide x 3" high with 8 high power LEDs.

Two indications shall be installed on an assembly facing in the direction of approaching vehicular traffic. The two indications shall be aligned horizontally, with the longer dimension of the indication horizontal, and a minimum space between the two indications of approximately 7" measured from inside edge of one indication to inside edge of second indication.

A 6 LED or approved equal indication shall be installed on an assembly facing in the direction of approaching pedestrian traffic to serve as a confirmation for the pedestrian that the system has been activated.

The outside edges of the two indications, including any housing, shall not protrude beyond the outside edges of the integral signage of the assembly.

The light intensity of the indications shall be certified to meet the minimum specifications of the Society of Automotive Engineers (SAE) standard J595 Class 1 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005 and be available upon request.

Each indication shall be located between the bottom of the crossing warning sign and the top of the supplemental downward diagonal arrow plaque.

All exposed hardware shall be anti-vandal.

All individual components of the system shall be replaceable to allow for easy field repair and maintenance.

To minimize excessive glare during nighttime conditions, an automatic signal dimming device should be used to reduce the brilliance of the RRFB indications during nighttime conditions.

#### **B.2 Sign**

All signs shall be supplied and installed under a separate bid item. However, the assemblies must be constructed to allow the appropriate space for the installation of the signs in the field.

#### **B.3 Control Circuit**

The control circuit shall have the capability of independently flashing up to two independent outputs. The LED light outputs and flash pattern shall be FHWA approved and engineer programmed.

The controller shall be one of the following: • Web enabled to allow for remote programming and system diagnostics. Including flash time, flash pattern and report system information, such as battery voltage, and temperature. • On-board user interface that provides system diagnostics and allows system setting changes.

The flashing output shall have 75 flashing sequences per minute during each 800 millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

1. The RRFB indication on the median side shall be illuminated for approximately 50 milliseconds.
2. Both RRFB indications shall be dark for approximately 50 milliseconds.

3. The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds.
4. Both RRFB indications shall be dark for approximately 50 milliseconds.
5. Both RRFB indications shall be illuminated for approximately 50 milliseconds.
6. Both RRFB indications shall be dark for approximately 50 milliseconds.
7. The RRFB indications for the advance RRFB shall be illuminated for approximately 50 milliseconds.
8. RRFB indications shall be dark for approximately 50 milliseconds.

Flash rates with the frequencies of 5 to 30 flashes/second shall not be used to avoid inducing seizures.

The control circuit shall be installed in an IP67 NEMA rated enclosure or NEMA 3R.

All circuit connectors shall conform to Ingress Protection, IP-67 rating, dust proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes. Connectors shall be Deutsch DTM series, Carmanah RRFB or approved equal.

All individual components of the system shall be replaceable to allow for easy field repair and maintenance.

#### **B.4 Beacon Operation:**

The RRFB shall be normally dark, shall initiate operation only upon pedestrian actuation, and shall cease operation at a predetermined time after the pedestrian actuation or, with passive detection, after the pedestrian clears the crosswalk.

All RRFB units associated with a given crosswalk (including those with an advance crossing sign, if used) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.

If pedestrian pushbutton detectors (rather than passive detection) are used to actuate the RRFB indications, a Push Button To Turn On Warning Lights (R10-25) sign shall be installed explaining the purpose and use of the pedestrian pushbutton detector. Additional signage will be shown on the signing plans and paid for under using standard signing bid items.

The duration of a predetermined period of operation of the RRFBs following each actuation should be based on the procedures provided in Section 4E.06 of the 2009 MUTCD for the timing of pedestrian clearance times for pedestrian signals.

The predetermined flash period shall be immediately initiated each and every time that a pedestrian pressing a pushbutton detector

A small pilot light may be installed integral to the RRFB or pedestrian pushbutton detector to give confirmation that the RRFB is in operation.

#### **B.5 Battery**

The Battery shall be a 12VDC Absorbed Glass Mat (AGM) sealed lead-acid, maintenance-free battery. The Battery shall be rated at 45AH minimum and shall conform to Battery Council International (BCI) specifications or battery system that is 14Ah or 48AR Gel Battery and is suitable for usage model and system autonomy requirements or approved equal. All batteries shall be sealed in a plastic film to provide moisture and corrosion resistance. The Battery shall have a minimum operating temperature range of -76° to 140°F (-60° to 60°C). All battery connectors shall conform to Ingress Protection, IP-67 rating, dust proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes. Connectors shall be Deutsch DTM series or approved equal. The Battery shall be solar-charged with a capacity up to 30 days of autonomy without sunlight, varying with ambient temperature and number of activations. Solar calculations shall be provided

#### **B.6 Wireless Radio**

Radio control shall operate on 900 MHz frequency hopping spread spectrum network or 2.4 GHz ISM band mesh network radio. Radio shall integrate with communication of RRFB system control circuit to activate light indications from pushbutton input.

The Radio shall synchronize all of the remote light indications so they will turn on within 120 msec of each other and remain synchronized through-out the duration of the flashing cycle. Radio systems shall operate from 3.6 vdc to 15vdc.

The Radio unit shall have an LCD display to program flash time and communicate system information, such as battery voltage, battery temperature and solar charge level an onboard diagnostics. All individual components of the system shall be replaceable to allow for easy field repair and maintenance.

### **B.7 Pushbutton**

The pushbutton shall be capable of continuous operation over a temperature range of -30 degrees F to 165 degrees F (-34 degrees C to 74 degrees C). Pushbutton shall be ADA compliant. Pushbutton facing sidewalk area that is accessible to wheelchair person

### **B.8 Solar Panel**

The Solar Panel shall provide a minimum of 10 watts and maximum of 55 watts at peak total output or approved equal. The Solar Panel shall be affixed to an aluminum plate and bracket, at minimum angle of 45 degrees to allow for maximum solar collection and optimal battery strength or approved equal. The Solar Panel Assembly (panel, plate and bracket) shall be mounted on a pole cap mount or aluminum mounting bracket, to allow for maximum solar collection and optimal battery strength or approved equal. The Solar Panel shall have a minimum operating temperature range of -40° to 185°F (-40° to 85°C).

### **B.9 Pedestal Shaft**

Shall meet the requirements as set forth in standard spec 657.2.4. Shall be a standard 4.5" OD aluminum pedestal pole. Supplied with one end threaded for easy installation into a pedestal base. Shall be a 15' Schedule 80 pipe raw aluminum. Incidental to RRFB. See signing plan for locations.

### **B.10 Pedestal Base**

Shall meet the requirements as set forth in standard spec 657.2.5. The pedestal base shall be a cast aluminum pedestals mount on a concrete base attached by four internal anchor bolts imbedded in the base. The Base shall have a large 8.5" square hand hole cover allowing access to the interior of the base. Incidental to RRFB.

### **B.11 Concrete Base**

Shall meet the requirements as set forth in standard spec 654.2.1, as applicable. The concrete base shall be a Type 1 base (WisDOT bid item 654.0101) or approved equivalent. Incidental to RRFB.

### **B.12 Anchor Bolts**

The anchor bolts shall be galvanized steel 1" x 42". Set of 4 includes lock washer and nut. Incidental to RRFB.

## **C Construction**

The RRFB system will consist of multiple assemblies to be constructed by the contractor as shown on the plans.

## **D Measurement**

The department will measure Rectangular Rapid Flashing Beacon System (location) by the 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.0060.51	Rectangular Rapid Flashing Beacon System, 100 <sup>th</sup> Street Westbound	EACH
SPV.0060.52	Rectangular Rapid Flashing Beacon System, 100 <sup>th</sup> Street Median	EACH
SPV.0060.53	Rectangular Rapid Flashing Beacon System, 100 <sup>th</sup> Street Eastbound	EACH

Payment is full compensation for providing and installing a fully operational RRFB system consisting of multiple assemblies

**69. APS Push Button System, 10 Buttons, W North Avenue and N 104<sup>th</sup> Street, Item SPV.0060.54.**

**A Description**

This item shall consist of vandal resistant Accessible Pedestrian Signal and push button assembly that provides a vibro-tactile ADA and MUTCD compliant 2" push button with a raised directional arrow. All sounds are emitted from inside the unit via a weatherproof speaker. The unit shall use 2 wires and interface with a single control unit located in the traffic control cabinet.

**B Material**

Furnish pedestrian push buttons conforming to all of the following requirements:

Audible Pedestrian Signal Push Button

1. Sunlight visible "Red LED" lights when the button is pushed and remains on until the walk phase goes into effect.
2. Audible "Tick" sound is heard each time the button is pushed, as well as tactile feedback given.
3. Extended push button can increase volumes, and/or mute all sounds except those on actuated crosswalk.
4. All audible sounds automatically adjust in volume in relation to ambient noise level. Audible volume level over ambient noise shall be adjustable up to 10 dB.
5. Audio Amplifier Power Output: 15 W, 8 ohm, weatherproof.
6. Provide separate volume controls for locator tone, walk message, Clearance and extended button volumes.
7. Volume Control Automatic Adjustment Range: 35 dB max.
8. Microphone For Ambient Noise approximate frequency range: 170 Hz to 2.3 kHz.
9. Options programmable from computer: Walk Sound, Walk Message, Rest In Walk, Location Message, Extended Push Activation and Locating Tone.
10. Audible Locating Tone: All tones shall meet MUTCD requirements.
11. Option standard locating tone, custom sound or verbal count down during PED Clearance and multiple voice message languages. Provide custom walk message, direction of travel and/or emergency vehicle warning message.
12. All sounds are synchronized. Sound alternate in front of the pedestrian and behind the pedestrian during the walking and/or ped clearance phase ("Ping Pong" feature).
13. Temperature Range: -40 degrees F to 165 degrees F.
14. Wind sensor to prevent runaway volume during windy conditions.
15. System can self-test and fault report to a remote site for real-time monitoring and system maintenance. Conflict Detect: WALK indication is ignored in the event of a WALK/DON'T WALK conflict.
16. Pedestrian Push Button Interface accepts 12 to 48 AC/DC. Capable of global configuration changes and/or single unit changes.
17. Frame: cast aluminum, powder coated yellow.
18. Face Plate: aluminum, powder coated, painted black background.
19. Arrow Push Button: aluminum, powder coated. Direction of arrow can adjust to one of four directions.
20. Push Button: ADA compliant, cast aluminum, nickel plated, powder coated. Vibrator Power shall be 15 VDC pulsed. Operates during walk interval only. Speaker: 8 ohm, 15 W MAX, weather proof.
21. Units shall be programmable from a standard Windows 7 laptop through the pedestrian control unit. If software is required for the programming of the units it shall be incidental to the contract.

### Pedestrian Control Unit

The control unit is the power supply and signaling interface between the existing intersection traffic controller and the pedestrian push button unit. The pedestrian control unit shall control up to 16 push button units and 4 pedestrian phases. The pedestrian control unit shall be housed inside the existing traffic controller cabinet and powered by the AC supply mains (115 VAC). Any cable or equipment between the control unit and the pedestrian button field wiring shall be considered incidental to the contract.

1. Pedestrian Walk/Don't Walk Inputs; Optically Isolated 80 – 150 Volts AC/DC 5mA Maximum.
2. General Purpose Outputs and Pedestrian Outputs; Optically Isolated 36 Volts AC/DC Peak, .3A Solid State Fused Contact Closure.
3. Fault Output; Normally Open and Closed Relay Contacts 125 Volts AC/DC 1A Maximum.
4. 4 Phase Pedestrian Push Button Power Output; Nominal 22 Volts DC, Short Circuit Protected – Auto Recovering.
5. General Purpose Inputs; 10 – 36 Volts AC/DC Peak 10mA Maximum, Optically Isolated.
6. Pedestrian control unit shall have an Ethernet port and shall be IP addressable for communications to programming computer.

### **C (Vacant)**

### **D Measurement**

The department will measure APS Push Button System (Location) as 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.0060.54	APS Push Button System, 10 Buttons, W North Avenue and N 104 <sup>th</sup> Street	EACH

Payment is full compensation for furnishing and installing all materials.

## **70. Battery Backup System, SPV.0060.55.**

### **A Description**

This special provision describes furnishing and installing a Field Hardened Battery Backup System to be mounted to the side of the existing traffic controller cabinet.

### **B Materials**

#### **B.1 General**

This specification establishes the minimum requirements for a complete emergency battery back-up system for use at traffic signals utilizing Light Emitting Diodes (LED) signals and pedestrian heads.

The Battery Back-up System (BBS) shall include, but not be limited to the following:

1. UPS with Inverter, Charger, Tap Switching Transformer and Internal Power Transfer Switch.
2. Automatic / Manual Bypass Transfer Switch unit.
3. Batteries
4. Battery Management System
5. Cabinet
6. Mounting hardware
7. Wiring

The BBS shall provide reliable emergency power to a traffic signal in the event of a power failure or interruption.

## B.2 Operation

The BBS shall provide the following operational modes when operating on battery power:

1. Full operation of all traffic signal devices.
2. Flash operation.
3. Combination of full and flash operation.

The BBS shall provide a minimum run time of 8.0 hours of full time operation with a 450-watt load. The minimum battery size requirement is listed in section 7.0, Battery Type.

The BBS shall be compatible with Model 332, 336, and 337 cabinets; the ITS cabinet; model 170 and 2070 controllers and any NEMA style cabinet and enclosures; the advanced transportation controller; and all cabinet components for full time operation.

The BBS shall provide a minimum of 1100W/1100VA@25°C active output capacity with 83 percent minimum inverter efficiency with 30% minimum loading.

When operating in backup mode, the BBS output shall be 120VAC  $\pm$  2%, pure sine wave output,  $\leq$ 3%THD, 60Hz  $\pm$  0.3 Hz.

The BBS DC system voltage shall be 48VDC nominal.

The maximum transfer time allowed, from disruption of normal utility line voltage to stabilized inverter line voltage from batteries, shall be 5 milliseconds (ms). The same maximum allowable time shall also apply when switching from the inverter line voltage to utility-line voltage. Transfers to and from battery operation shall not interfere with the operation of the other equipment in the intersection.

The BBS and all components shall operate without performance degradation over a temperature range of -40°C (-40°F) to +74°C (+165°F) with a maximum load of 70% of rated output of the BBS inverter.

The BBS feedback level shall be tested and certified to Electrical Standards UL 1778 and CSA 107.3.

The BBS shall have surge protection compliant with IEEE/ANSI C.62.41 Cat. A and B.

The BBS system shall have a Mean-Time-Before-Failure (MTBF) of 174,955 hours at a temperature of 25°C (77°F) and 103,030 hours at a temperature of 50°C (122°F) per Telcordia SR-232, 100% duty cycle, full load.

The BBS shall be easily installed, replaced, or removed by using easily removable cables for AC input, AC output, DC input, external transfer control/alarm and battery temperature sense.

The AC input and output shall hard wired connections.

The DC connection shall be a recessed one piece Anderson Style connector rated to handle the maximum DC current required by the inverter while running on batteries.

The battery temperature probe connection inputs shall be panel-mounted Telco style connector. In the event of inverter/charger failure, battery failure or complete battery discharge, the automatic bypass transfer switch shall revert to Normally Closed (NC) (de-energized) state, where utility line power is connected to the cabinet.

The BBS Inverter Module shall be able to shut down in order to protect against internal damage in the event of an overload at the output. The Inverter shall support an overload up to 115% for 2 minutes and then turn off the inverter output. The fault recovers when the overload is removed and line power returns.

The BBS shall provide a (2) time-of-day schedule settings programmable by the user.

1. The time-of-day schedule shall allow the user to program schedule operational modes as required, per intersection.
2. The BBS time-of-day function when programmed shall automatically change operational modes based on the time-of-day schedule. Operational modes shall be Red Flash or Full Operation.
3. The BBS shall not switch from Flash Operation to Full Operation mode when the remaining battery capacity is  $\leq$ 40 percent.

The BBS shall prevent a malfunction feedback to the cabinet or from feeding back to the utility service.

In the event of BBS failure (inverter/charger or battery) or complete battery discharge, the internal power transfer relay shall revert to Normally Closed (de-energized) state and provide utility power to the intersection when utility line power is available to the cabinet.



The BBS shall initiate an automatic shutdown when battery output reaches 42.0VDC.

The BBS shall be equipped with an integral system to prevent the battery from destructive discharge or overcharge.

### **B.3 Automatic Bypass Transfer Switch**

The BBS shall include an Automatic/Manual Transfer Switch rated at 120VAC/30 amps.

The Automatic Bypass Transfer Switch shall be a combination automatic/manual bypass switch. Placing the bypass switch in the "Bypass" mode shall transfer the intersection load from the UPS output directly to commercial power. AC commercial power must still be available to the UPS input, allowing the UPS to keep the batteries charged. An Inverter Input breaker shall be provided and located on the Bypass Switch so to shut off commercial power to the UPS input, allowing safely disconnecting and removing the inverter. With the inverter turned off, the batteries can be safely disconnected from the system

The Automatic Bypass Transfer Switch shall include a bypass indicator light that automatically notifies the user when the Manual bypass switch is in Bypass position. The indicator light shall be illuminated when in UPS mode.

The Automatic Transfer Switch shall have an optional bypass status relay with normally open, dry contacts that automatically close when the Manual bypass switch is in Bypass position.

The manual bypass switch and the automatic transfer relay shall be integrated together within the Automatic Bypass Transfer Switch allowing the manual bypass switch to be rated at 15 Amp and to be integrated with the bypass indicator light.

The Automatic Bypass Transfer Switch shall have terminal blocks capable of accepting #6 AWG wiring for the AC input and output with #10 AWG from the Automatic Bypass Transfer Switch to inverter/charger module.

### **B.4 Functionality**

The BBS shall be Double Buck/Double Boost – Line-Interactive, True UPS.

1. The Double Buck/Double Boost mode shall have a minimum range of 85 - 175 VAC.
2. There shall not be any user definable transfer set points for the buck boost mode.
3. Whenever AVR mode is selected the output of the system shall be regulated between 108-130VAC. When the output of the system can no longer be maintained with this range, the BBS shall transfer to Backup Mode.
4. The BBS shall be equipped with an AC Input circuit breaker that protects both the UPS and the loads connected to the output. Should the AC Input breaker on the UPS trip, it shall allow the UPS to go to inverter mode to power the intersection off of batteries. Should an overload condition still exist when the inverter is energized the inverter will revert to its internal electronic protection, preventing damage to the inverter due to the overload or short circuit condition, on the output. Once this overload condition is cleared the inverter will energize and power the intersection utilizing the available battery power. If the condition does not clear itself, the inverter will stay in the standby mode until manually cleared by a technician.
5. The BBS shall have a flush mounted Battery circuit breaker installed on the front panel of the BBS inverter module.

The BBS shall have a user definable line qualify time. The user shall be able to select a minimum of six (6) possible settings. The settings shall be 3, 10, 20, 30, 40 and 50 seconds. The default line qualify time shall be 3 seconds.

The BBS shall have an integral charger that is compatible with Gel and AGM battery topology. The charger shall be an intelligent charger with control systems that automatically incorporates bulk, absorption and float charging modes.

1. The integral intelligent charger shall use temperature compensation. The charging system shall compensate over a range of 2.5 - 6.0mV/°C per cell, user adjustable when required.
2. A temperature probe which plugs into the front panel of the BBS shall be used to monitor the internal temperature of the batteries. The Temperature sensor shall be 2 meter in length, external to the inverter/charger module and taped to the side of a center battery within the battery string.

3. The batteries shall not be recharged whenever the battery temperature exceeds 50°C (122°F).
4. The recharge time for the batteries from “protective low-cutoff” to 90 percent or more of full charge capacity shall not exceed 2-4 hours, subject to temperature compensation. The BBS charger shall be capable of providing 15 amps at 54VDC.

### **B.5 User Interfaces and Displays**

The BBS inverter/charger unit shall include a backlit LCD display for viewing all status and configuration information. The screen shall be easily viewable in both bright sunlight and in darkness.

The screen shall be large enough to display the following information with the use of menu scrolling buttons to read required information. All active readings shall be real time.

- i. Operating Mode (Line, Standby, Backup, Buck / Boost)
- ii. Utility input voltage
- iii. BBS output voltage and current
- iv. Battery Temperature
- v. Input Frequency
- vi. Output Power
- vii. Battery Voltage
- viii. Charger Current
- ix. Shed Timer Relays time to activation
- x. Ethernet MAC Address and IP Address
- xi. Accumulated output power in kW hours
- xii. Battery Runtime Remaining
- xiii. Unit Serial number
- xiv. Unit Firmware Version
- xv. Any alarms and faults
- xvi. Keypad

The BBS inverter/charger unit shall include a keypad for navigating system information.

The BBS shall be provided with a web-based-interface for user configuration and management through a web browser.

The BBS shall allow the user to do the following through the web browser:

- i. View Logs
- ii. Change modes of operation
- iii. Configure email alarms
- iv. Adjust line qualify time
- v. Program relay contacts
- vi. Configure network parameters.
- vii. Inverter/charger firmware to be upgradeable remotely via Ethernet.
- viii. Communication module firmware upgradeable remotely.

The BBS shall have discrete status LED indications on the front of the inverter/charger. Green Output LED shall be ON any time that the output of the BBS is in normal mode. When the BBS output is either in Backup Mode or AVR Modes the LED will flash On and Off. Red Fault LED shall be Solid On any time that there are any faults in the system. Red Flashing Alarm LED shall Flash On and Off any time that there are any alarms in the system.

The BBS shall maintain an event log containing a minimum of 200 of the most recent events recorded by the BBS. These events shall be down loadable remotely via Ethernet and automatically reported to the central monitoring software. The Events Log shall be date and time stamped.

The BBS shall display and log the following events, alarms and faults.

- i. Operating Mode
- ii. Weak Battery
- iii. Overload
- iv. High and Low Temperatures
- v. User Input, S2 is shorted
- vi. Line Frequency out of specifications
- vii. No temperature probe
- viii. Low Battery
- ix. Battery Breaker Open
- x. BBS is performing a Self-Test
- xi. Fan Fail
- xii. Incorrect Firmware
- xiii. AC Input Breaker Open
- xiv. Short Circuit
- xv. Output Voltage High
- xvi. Output Voltage Low
- xvii. Battery Voltage High
- xviii. Battery Voltage Low
- xix. Isolation Relay Fail
- xx. Temperature High
- xxi. Counters

The BBS shall keep track of the following:

- i. The number of times that the unit was in Backup Mode.
- ii. The accumulated number of hours and minutes that the unit has operated in Backup mode since the last reset.

The BBS shall provide the user six programmable dry relay contacts and one 48VDC relay contact. As a minimum, the programmable options shall be On Battery, Low Battery, Timer, Alarm, Fault, and Off. The BBS shall also have three input dry relay contacts. BBS Self-Test, User Alarm, and BBS Shutdown.

The relay contacts shall be made available on the front panel of the BBS via 6, 3 position plug-in terminal blocks with screw down wiring connections.

Each relay, C-1 through C-5 shall have their own common and their own set of normally open (NO) and normally closed (NC) terminals. The terminals for each relay shall be oriented as NO-C-NC on the terminal block. C-6 shall provide continuous 48 VDC voltage for powering of enclosure DC fan.

The contacts on the terminal block shall be labeled 1-18, left to right. Additionally, each set of contact shall be labeled with the NO-C-NC designation, as well as C1...C6 from left to right. Printed labels noting all alarms and faults shall be provided with the BBS Inverter/Charger to be installed when required.

1. The relay contacts shall be rated at a minimum of 1 amp @ 250 VAC.
2. The dry relay contacts that are configured for "on battery" shall only energize when the Inverter is operating in Backup Mode.

3. The BBS shall include a timer that will energize the “timer” configured dry relay contact after the user configured time has elapsed. The timer is started when the BBS enters Backup Mode. The user shall be able to configure the timer to the required time. The format shall be Hours, Minutes, Seconds.
4. The BBS shall have an adjustable low battery relay setting. This setting shall be adjustable so that the user can set the point at which the low battery relay contact is energized.

## **B.6 Communications**

The BBS shall be equipped with an industry standard RS-232 serial connection for user configuration and management. The serial port shall be an EIA-232 (DB9-Female) connector.

The BBS shall have an internal Ethernet communication interface for user configuration and management. The Ethernet Port shall be an RJ-45, EIA 568B Pin Out Connector.

The BBS shall include remote monitoring and alarms transmission capabilities through the Ethernet RJ-45 IP Addressable Port, using SNMP protocol. System shall have the capability of notifying Operations, Maintenance or TMC via e-mail of any alarms, faults or events, user selectable. E-mail set up must allow for different levels of notifications based on the criticalness of the alarms. Email notifications shall support 6 different users.

All BBS configuration and System menus shall be accessible and programmable from the RS-232 and Ethernet Port. The BBS shall support TCP and UDP over IP protocol communications. The BBS shall support FTP, Telnet, and HTTP. The BBS shall be SNMP compliant.

## **B.7 Batteries**

The battery shall be comprised of extreme temperature, float cycle, GEL VRLA (Valve Regulated Lead Acid). Individual batteries shall meet the following specifications:

1. Voltage Rating: 12V
2. Amp-hour rating: 109 AH, at the 20-hour rate, to 1.75 Volts per cell, minimum battery rating. Larger AH batteries are acceptable providing they do not exceed the group size listed below.
3. Group size: Case 31

Batteries shall be easily replaced and commercially available off the shelf.

Batteries shall provide 100% runtime capacity out-of-box. Each battery must meet its specification without the requirement of cycling upon initial installation and after the initial 24 hour top off charge.

Batteries used for the BBS shall consist of 4 batteries configured for a 48 VDC battery buss system.

The battery system shall consist of one or more strings of extreme temperature; float cycle GEL VRLA (Valve Regulated Lead Acid) batteries. Batteries shall be certified to operate at extreme temperatures from -40°C to +71°C.

The batteries shall have maintenance-free threaded insert terminals eliminating annual torqueing. Battery terminals that require annual torqueing of each post connection shall not be permitted.

An integral lifting handle shall be provided on the batteries for ease of removal/installation.

## **B.8 Cabinet**

The dimensions for the BBS cabinet shall not exceed 50 inches in height, 17 inches in width and 17 inches in depth.

1. The Inverter/Charger Unit shall be shelf or rack mounted on a standard EIA19” rack.
2. The Automatic Transfer switch shall be mounted on EIA 19” Rail.
3. All interconnect wiring shall be provided and shall be UL Style 1015 CSA TEW.

The BBS equipment and batteries shall be easily replaced and shall not require any special tools for installation.

The BBS inverter and batteries shall be hot swappable. There shall be no disruption to the Traffic Signal when removing the inverter or batteries for maintenance.

All inverter and battery connections shall be of the quick disconnect type for ease of maintenance

All necessary installation hardware (bolts, fasteners, washers, shelves, racks, etc.) shall be included.

The external cabinet shall be capable of housing batteries up to a group 31 size, inverter/charger power module, automatic transfer switch, control panels, wiring, wiring harnesses, and all other ancillary equipment.

The BBS shall be side-mounted to a Traffic Controller cabinet with no mounting brackets required.

All external cabinets shall be NEMA 3R rated. The enclosure shall be made of 0.125 inch (5052-H32) aluminum.

The external cabinet shall be ventilated through the use of louvered vents, filter, and a minimum of one thermostatically controlled fan. The filter shall be the re-usable type and matching the dimensions of the louver with both located on the bottom half of the door.

The cabinet fan shall be DC operated for longer reliability.

The BBS cabinet shall come with all bolts, washers, nuts required to mount it to a Controller cabinet.

All components, terminations, terminal blocks, relays, etc. shall be fully accessible.

Battery shelves shall be located in the bottom half of the enclosure. The bottom battery shelf shall be removable, and the top battery shelf will be welded to the enclosure sides. Air must be allowed for flow from the bottom of the cabinet and up the back internal wall. Neither the top battery shelf nor the Power Module shelf shall inhibit the airflow to the top of the cabinet.

The cabinet shall include a 3 point locking system, including a Type 2 Corbin lock and utilize a handle with pad locking capability.

The following options shall be available for the cabinet:

1. On-Battery lamp mounted externally on the top of the cabinet that illuminates when the BBX is operating in inverter mode.
2. Battery Heater Mats to increase battery capacity in cold climates.
3. Receptacle plate assembly that mounts on the transfer switch panel to provide utility power to the battery heater mats.
4. Automatic Generator Transfer switch that senses a generator is connected and automatically switches to the generator source.
5. Internal lamp with door push-button switch to illuminate the interior of the cabinet.
6. Status monitoring dry contacts for the Automatic Transfer Switch and the Generator Transfer Switch.

## **B.9 Maintenance**

The BBS shall provide voltmeter standard probe input-jacks (+) and (-) to read the exact battery voltage drop at the inverter input.

The BBS Inverter Module shall be programmable to perform automatic self-testing, programmed in weekly intervals and programmed by the user to meet their specific requirements or manufacturer's recommendation. During self-test the BBS Inverter Module shall identify a weak battery or multiple batteries in the string that have reached a weak state and notify maintenance by initiating a Weak Battery Alarm.

## **B.10 Remote Battery Monitoring**

A remote battery monitor system (RBMS) shall be permanently installed into the UPS/Battery cabinet to monitor the four UPS batteries (4-12V battery blocks). The RBMS shall have the ability to monitor, read and record both the battery string and individual battery voltages, admittance (internal battery resistance), individual battery temperatures and to provide a real-time evaluation of the battery bank health.

The RBMS shall have a built-in web interface for communications over Ethernet. The device shall be hardened and operate at a temperature range of -40C to +65C. The device shall include individual 12 volt battery sensors and operate in the range of -40C to +80C. Communications shall be SNMP via TCP/IP.

The RBMS shall include software to automatically poll each intersection, up to 100 per software program, reading individual battery voltage, admittance and temperature, confirming each is within its user programmable parameters. The system shall have the ability to program the intervals as to when each reading is taken, by days, weeks or months. The software shall be provided as part of the system cost.

The RBMS shall also perform as a battery balancer, continuously monitoring all batteries in the string and to interface with the UPSs charger voltage/current to keep the batteries equal with all batteries within the battery string. The RBMS shall allow for any single 12V battery within the battery string to be replaced without replacing all batteries in the string during the battery warranty period.

### **B.11 Warranty**

The BBS System shall include a five-year manufacturer's warranty on parts and labor on the entire BBS System, including batteries, to the Agency when utilizing the BBS Manufacturers own designed enclosure, meeting the above cabinet specifications.

Should the agency decide not to use the enclosure provided by the BBS Manufacturer, the manufacturer shall provide a three-year warranty on parts and labor on the BBS Inverter Module only.

The BBS Manufacturer shall provide a 5-year unconditional full replacement warranty for every battery sold to the Agency with the BBS under this specification. Under the warranty time period, the battery must provide a minimum of 70% of its original capacity, otherwise it will be considered to be non-compliant to the warranty and replaced at no cost to the Agency or DOT by the BBS manufacturer.

### **B.12 Vendor Support**

The BBS manufacturer shall provide at no charge, a toll-free technical support phone number. The toll-free phone number shall be included in the BBS manual.

Equipment manuals shall be provided for each BBS cabinet. Equipment manuals shall include installation, operation, programming, maintenance and troubleshooting.

### **B.13 Quality Assurance**

Each BBS shall be manufactured according to a written manufacturer's Quality Assurance program. The QA program shall include, as a minimum, specific design and production QA procedures.

The BBS Power Module manufacturer shall be ISO 9001 or ISO 9002 certified.

The BBS Power Module shall be Telcordia SR-232 certified.

The manufacturer shall be certified to carry out the CSA and UL standards testing on the BBS system.

## **C Construction**

Furnish and install Battery Backup System on the side of the existing traffic controller cabinet per manufactures instructions.

## **D Measurement**

The department will measure Battery Backup System for Traffic Intersections, as each complete unit of work, acceptably completed 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.0060.55	Battery Backup System	EACH

Payment is full compensation for furnishing and installing the battery backup system with cabinet, fittings as are necessary to assure that the battery backup system will perform the said functions.

## **71. Vehicle Video Detection System, W North Avenue and N 104th Street, Item SPV.0060.56.**

### **A Description**

This work shall consist of furnishing, installing and placing into operation a video detection system (VDS) as shown on the plans, and as directed by the engineer in the field.

## **B Materials**

### **B.1 System Hardware**

#### **Video Detection System Shall Be Iteris Vantage Next**

The video detection system (VDS) shall consist of up to four video cameras, up to two video detection processors (VDP) capable of processing two video sources each, one Central Control Unit (CCU), input/output extension modules, video surge suppressors and a pointing device, or any combination thereof.

The VDS will be deployed at locations where site conditions and roadway geometry vary. The VDS system may also be deployed at locations where existing cabinets or equipment exist. Existing site configurations will dictate the availability of cabinet space and VDS usage.

### **B.2 System Software**

The system shall include software that discriminately detects the presence of individual vehicles and bicycles in a single or multiple lanes using only the video image. Detection zones shall be defined using only an embedded software application. A monitor, a keyboard and a pointing device are used to place the zones on a video image. A minimum of 32 detection zones per camera view shall be available. A separate computer shall not be required to program the detection zones. In addition to creating vehicle and bicycle zones, the system shall automatically define a pedestrian crossing area in front of the stop bar zones. The system shall provide a tracking mechanism that counts pedestrian volume moving within this crossing area, and also determine the average, maximum, and minimum speed of pedestrians moving within this crossing zone. The system shall also provide discrete outputs when pedestrians are in the crosswalk during normal crossing phases and when a red phase input has been detected. The system shall also provide a visual indication on the video image that a pedestrian is in the crosswalk.

### **B.3 Warranty**

- 1) The supplier shall provide a limited three-year warranty on the video detection system.
- 2) During the warranty period, technical support shall be available from the supplier via telephone within 4 hours of the time a call is made by a user, and this support shall be available from factory-certified personnel or factory-certified installers.
- 3) During the warranty period, updates to VDP software shall be available from the supplier without charge.

## **C Construction**

- 1) Installation per manufactures recommendations
- 2) The cable to be used between the camera and the CCU in the traffic cabinet shall be Cat-5e, shielded, direct burial. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. Shielded RJ-45 connectors shall be used where applicable. The Cat-5e cable, RJ-45 connector, stripping and crimping tool shall be approved by the supplier of the video detection system, and the manufacturer's instructions must be followed to ensure proper connection.
- 3) The video detection camera shall be installed by factory-certified installers as recommended by the supplier and documented in installation materials provided by the supplier. Proof of factory certification shall be provided.
- 4) The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the video detection system. These parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale for said parts.
- 5) The supplier shall maintain an ongoing program of technical support for the video detection system. This technical support shall be available via telephone, or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale for on-site technical support services.
- 6) Installation or training support shall be provided by a factory-authorized representative and shall be a minimum IMSA-Level II Traffic Signal Technician certified.
- 7) All product documentation shall be written in the English language.

**E Measurement**

The department will measure Vehicular Video Detection System as each individual system, furnished, installed, and accepted at each intersection.

**D Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.56	Video Vehicle Detection System, W North Avenue and N 104th Street	EACH

Payment is full compensation for furnishing and installing all equipment, cabling, mounting each camera, necessary additional items, testing and setting up the system.

**72. City Furnished Temporary EVP Equipment, W North Avenue and N 104<sup>th</sup> Street, Item SPV.0060.57.**

**A Description**

This special provision describes salvaging and reinstalling the existing EVP equipment from the existing traffic signal to a temporary traffic signal for operation during construction as shown in the plans.

**B Materials**

Transfer existing city-owned equipment from the existing permanent traffic signal to the temporary traffic signal.

**C Construction**

Reinstall the existing EVP equipment as shown in the temporary traffic signal plans or as directed by the engineer. Program the EVP operation according to the temporary traffic signal plans and timings. All equipment shall be complete in place, tested, and in full operation during each stage and sub-stage of construction.

Determine a suitable location for the EVP detectors on the temporary signal for each stage and sub-stage of construction. Detectors may be mounted on the temporary traffic signal span wire or wood poles. Furnish new hardware for mounting detectors as required. Relocate the detectors to a suitable location if construction activities and/or construction staging changes impede the detector operation. Arrange for testing of equipment prior to acceptance of the installation for each construction stage.

Furnish and install new detector cable and confirmation light wire to create a complete and functional system. There shall be NO detector cable splices from the detector assembly to the controller terminations.

All cables associated with the EVP equipment shall be routed to the cabinet. Each lead shall be appropriately marked as to which EVP channel it is associated.

Periodic adjustment and/or moving of the detectors may be required due to changes in traffic control, staging, or other construction operations.

Ensure the EVP equipment stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

Provide the engineer records of all timing settings used during construction.

**D Measurement**

The department will measure City Furnished Temporary EVP Equipment (Intersection), as each individual unit of work per intersection, complete in place and accepted.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.57	City Furnished Temporary EVP Equipment, W North Avenue and N 104 <sup>th</sup> Street	EACH

Payment is full compensation for reinstalling all required equipment on the temporary traffic signal; for relocating the temporary EVP detectors due to construction activities, if required; for programming and testing the EVP system for each stage and sub-stage of construction; for periodically cleaning all



temporary EVP detectors; for cleaning up and properly disposing of waste. Removal of the EVP equipment from the existing traffic signal is paid for under a separate item.

**73. Remove and Reinstall EVP Equipment, W North Avenue and N 104<sup>th</sup> Street, Item SPV.0060.58.**

**A Description**

This special provision describes removing the temporary EVP equipment from the temporary traffic signal to the new permanent signal as shown in the plans.

**B Materials**

Transfer the city-owned equipment from the temporary traffic signal to the new permanent traffic signal installation.

**C Construction**

The city assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working traffic signal equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, will be replaced by the contractor at no cost to the city.

Reinstall the EVP equipment as shown in the permanent traffic signal plans or as directed by the engineer. Program the EVP operation according to the permanent traffic signal plans and timings. All equipment shall be complete in place, tested, and in full operation prior to the final permanent traffic signal turn-on.

- The Emergency Vehicle Preemption System shall include salvaging and reinstalling the discriminators, detectors and confirmation lights. The discriminator shall be mounted in a card rack included as part of the signal cabinet. Furnish new hardware for mounting detectors as required.
- Furnish and install new wiring for power of confirmation lights.
- Detectors shall be mounted on the monotube or luminaire arms as shown on the plans.
- The traffic signal arms and poles shall be drilled and tapped to accommodate the mounting of the detector units as shown in the plans. The installation method shall be approved by the engineer.
- In the event, at installation, a noticeable obstruction is present in the line with the detector, the contractor shall be obligated to advise the engineer before installation.
- Unless otherwise directed by the engineer, the detector shield tube shall be installed with the drain hole at the bottom.
- Furnish and install new detector cable to create a complete and functional system. There shall be NO detector cable splices from the detector assembly to the controller terminations.
- The EVP detector cables shall be routed to the controller. Each lead shall be appropriately marked as to which street or avenue it is associated. The contractor will perform all terminations inside the cabinet.
- The EVP as specified and shown in the plans shall be complete in place, tested, and in full operation.

**D Measurement**

The department will measure Remove and Reinstall EVP Equipment (Intersection), as each individual unit of work per intersection, complete in place and accepted.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.58	Remove and Reinstall EVP Equipment, W North Avenue and N 104th Street	EACH

Payment is full compensation for removing and reinstalling all required equipment, materials, and supplies; for installing the detectors to match the plans; for programming and testing the EVP system; for cleaning up and properly disposing of waste.

**74. Round Steel Sign Post System, Item SPV.0060.59.**

**A Description**

Work under this item includes furnishing and installing signposts and post anchors at the locations shown on the plans and according to the requirements of standard spec 634, the plans, and as hereinafter provided. All signposts shall be round tubular steel and installed as shown in the plans.

**B Materials**

Furnish a round steel post with 2-3/8" outer diameter to the length necessary for sign placement, a Tapco V-loc post anchor for new concrete (Tapco item #034-00082) or standard soil (Tapco item #034-00003), and a set of two sign mounting Z-brackets (Tapco item #037-00005) or a set of two double sided sign mounting Z-brackets (Tapco item #037-00012B) that fits a 2-3/8" post.

**C (Vacant)**

**D Measurement**

The department will measure Round Steel Sign Post System as each Round Steel Sign Post 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.0060.59	Round Steel Sign Post System	EACH

Payment is full compensation for providing all materials including post, anchor, mounting brackets, and all related hardware; for installing the anchors and adapters; for placing the posts; treating cut post ends; and for removing and disposing of surplus material.

**75. Temporary Video Detection, W North Avenue and N 104<sup>th</sup> Street, Item SPV.0060.60.**

**A Description**

This special provision describes furnishing, installing and maintaining vehicle detection systems in conjunction with temporary traffic signals as shown in the plans. The desired vehicle detection zones and their operational parameters are show in the plans.

**B Materials**

Provide all necessary equipment for the approved method of temporary vehicle detection. Select, with prior approval of the engineer, the vehicle detection technology best suited for the site conditions and the anticipated construction work zones and activities. The engineer reserves the right to request a demonstration of any or all temporary vehicle detection technologies prior to said approval. Vehicle detection technologies considered shall include; but are not limited to: microwave detection, radar detection, or video detection. Detection technology shall provide for true presence detection.

**C Construction**

Provide immediate response, 24-hour/7-days per week, to maintain any aspect of the temporary vehicle detection that is defective, completing repairs or adjustments the same day as notification.

Adjust, relocate, add, or remove temporary vehicle detection equipment for each traffic control stage or sub stage as shown in the plans, request by the engineer, or as modified by the contractor's operations to maintain the required traffic and complete the proposed work.

**D Measurement**

The department will measure Temporary Video Detection (Intersection), as each individual unit of work per intersection, complete in place and accepted.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.60	Temporary Video Detection, W North Avenue and N 104 <sup>th</sup> Street	EACH

Payment is full compensation for demonstrating and selecting the vehicle detector technology, furnishing, installing and adjusting or moving the equipment, providing new wire and cables, including all required materials, tools and supplies; and for clean-up and waste disposal.

## 76. Relocate Signal Pole Assembly, Item SPV.0060.61.

### A Description

The work under this item shall consist of removing, salvaging, and reinstalling above-ground traffic signal or lighting equipment owned by the WisDOT, according to the applicable provisions of standard spec 204, 655 and 659.

Specific removal and salvage items are described in the plans and miscellaneous quantities. This item also includes all other non-itemized materials, labor, and tools required to remove the signal or lighting equipment as shown in the plans.

### B (Vacant)

### C Construction

Inspect the pole and signal equipment prior to removing from the existing base. Inform the engineer of any items of concern or potential problems that may interfere with the reuse of the pedestal bases, transformer base, pole, signal heads, or luminaire arms. Arrange for the removal of the signal or lighting pole equipment after receiving approval from the engineer that the existing equipment can be removed. New bases and base removal will be paid as separate items and are not included herein.

Store the salvaged signal and lighting equipment in a secure location as directed by the engineer.

Reinstall the signal or lighting equipment on the newly constructed concrete bases as shown on the plans. Furnish and install additional signal and lighting cable as necessary which will be paid as separate items and are not included herein.

### D Measurement

The department will measure Relocate Signal Pole Assembly by each pole, acceptably relocated.

## 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	Relocate Signal Pole Assembly	EACH

Payment is full compensation for removing, relocating, and/or disassembling signal or lighting pole, scrapping of some materials, storing salvaged items on site, and disposing of scrap material.

## 77. Relocate Monotube Assembly, Item SPV.0060.62.

### A Description

This special provision describes relocating the existing monotube assemblies at the intersection of W. North Avenue and N. 104<sup>th</sup> Street

### B Materials

Furnish new High-Strength Bolts in conformance with standard spec 657.2.7.

**C Construction**

New High-Strength Bolts shall be installed in conformance with standard spec 657.3.3.2.

Relocate the existing monotube assembly including: monotube pole, monotube arm, luminaire arm, and luminaire fixture to a new Concrete Base Type 10. Remove one of the luminaire arms as shown in the plans.

**D Measurement**

The department will measure Relocate Monotube Assembly by each relocated monotube assembly, 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	Relocate Monotube Assembly	EACH

Payment is full compensation for relocating existing monotube poles, monotube arms and luminaire arms; furnishing new steel high-strength bolt/nut/washer assemblies and DTIs including those required for testing; and for providing related mounting hardware and leveling shims.

The concrete base removal and new concrete base shall be paid separately.

- 78. Sanitary Sewer Lateral 6-Inch Riser 2 V.F. or Less, Item SPV.0060.63;**
- Sanitary Sewer Lateral 6-Inch Riser 5 V.F. to 2.1 V.F., Item SPV.0060.64;**
- Sanitary Sewer Lateral 6-Inch Riser 7-feet to 5.1 V.F., Item SPV.0060.65.**

**A Description**

This special provision describes the construction of Sanitary Sewer Lateral Riser 6-Inch.

**B Materials**

All materials required to install the sanitary sewer will conform to the Standard Specifications for Sewer and Water Construction in Wisconsin, latest Edition.

**B.1 PVC Pipe**

The pipe shall be polyvinylchloride Pipe (PVC), ASTM D-3034 SDR-35. All fittings, including bends, shall be of the same material as the proposed sanitary sewer main. Material joining the fitting to the pipe shall be free from cracks and shall adhere tightly to each joining surface.

**B.2 Pipe Gaskets**

Sanitary sewer pipes shall have rubber gaskets conforming to ASTM F-477.

**C Construction**

**C.1 General**

Construct 6-inch PVC "Type D" riser connections as described in the Standard Specifications for Sewer and Water Construction in Wisconsin, latest Edition.

Notify the Milwaukee Metropolitan Sewerage District (MMSD) and City of Wauwatosa prior to construction at least three business days in advance. Notify, in writing, all businesses and property owners/occupants within the project limits to inform them of the project and to inform them of any temporary sewer service disconnections. Provide and maintain all necessary bypass pumping for sanitary sewer relay.

Install risers at locations designated in the plan. The lateral connection locations designated in the plan are shown to the best of city records. Determine the exact location of the laterals as the existing services are exposed.

The City of Wauwatosa is acquiring MMSD and WDNR approvals for the proposed sanitary sewer relay work. No work shall begin on the sanitary sewer relays until such approval has been granted. Contact Nick Deming, City of Wauwatosa Construction Manager at (414) 479-3541 to confirm approvals have been obtained.

Building Sanitary Sewer 6-Inch shall be installed to relay existing sanitary service as shown on the plan. In-line wye connections shall be installed on sanitary sewer relays to reconnect existing sanitary sewer laterals presently in service and/or as directed by the engineer. The locations of the existing sanitary sewer laterals are shown based on available records and actual locations may vary. Existing laterals shall be reconnected using appropriate bends and approved adapters as directed by the engineer. Existing sanitary laterals shall be located prior to installing the new wye connections or risers in relay sections.

Inspect the existing lateral at the connection point to verify that pipe is in good condition and free of obstruction and report the inspection to the engineer prior to making the final connection.

Sanitary laterals shall be relayed so there is at least 6" between the bottom of the proposed storm sewer and the top of the proposed building sewer.

**C.2 Laying of Pipe**

**C.2.1 Bedding, Cover, Foundation and Slurry Backfill Material**

Furnish backfill slurry according to the pertinent requirements of standard spec 209 except as hereinafter modified. Use aggregates that conform to standard spec 501 for Grade A Concrete. Weigh aggregates at a batch plant suitable for batching concrete masonry. Mix and deliver to the project site using a truck mixer. Add enough water to enable the mixture to flow readily. Backfill slurry shall meet the material and construction requirements of section 8.43.8 of the Standard Specifications for Sewer and Water.

**C.2.2 Joints Between Dissimilar Pipe Materials**

Connect dissimilar pipe materials by shall be made with Fernco Strong Back RC 5000 Series Compression Couplings or approved equal. Install couplings in strict accordance with the manufacturer's recommendations. The cost of connecting dissimilar pipe materials with nonshear flexible compression coupling is incidental to the cost of sanitary sewer pipe.

**C.2.3 Joints Between Similar PVC Pipe Materials**

PVC couplings shall be used to connect existing PVC pipe to proposed PVC pipe. PVC couplings shall be of the same ASTM number and schedule rating as the pipes. All couplers shall be approved by the engineer before installation.

**D Measurement**

The department will measure Sanitary Sewer 6-Inch Lateral (height) by each, acceptably completed from center of sanitary main, to the invert of the pipe laid at the top of the riser, whichever length is applicable for payment of each.

**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	Sanitary Sewer Lateral 6-inch Riser 2 V.F. or Less	EACH
SPV.0060.64	Sanitary Sewer Lateral 6-inch Riser 5 V.F. to 2.1 V.F.	EACH
SPV.0060.65	Sanitary Sewer Lateral 6-inch Riser 7 V.F. to 5.1 V.F.	EACH

Payment is full compensation for providing all materials including all pipe materials, fittings, and accessories required; for surveying; for furnishing all asphaltic pavement removal and excavating; for providing and placing pipe bedding and cover material; for laying pipe; for sealing joints and making connections to new or existing facilities; for backfilling and compaction; for leakage testing; for providing and maintaining all necessary bypass pumping for sanitary sewer relay; for removing existing pipe, for cleaning out and restoring the work site complete contract work. No additional payment shall be made for any exploratory work needed to locate existing sanitary laterals.

**79. Sanitary Manhole Frame and Cover, Item SPV.0060.66.**

**A Description**

This special provision describes installing city furnished frames and covers, including chimney adjustment.

**B Materials**

Use materials conforming to Chapter 8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, latest Edition, standard spec 611 and as supplemented as follows:

Use Cretex "Pro-Ring" manhole chimney adjusting rings or approved equal.

New frames and covers will be supplied by the city, which the contractor shall pick up from DPW yard.

Contractor shall deliver all removed existing frames and covers to the DPW yard after the work is completed.

**C Construction**

Perform work in accordance Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin and standard spec 611.

Surface Requirements.

Set the frames and lids accurately, so the complete installation is at the correct elevation required to fit the adjoining surfaces. The frames shall be set in pavement areas so that they comply with the following surface requirements. Place a 6-foot straightedge over the centerline of each frame parallel to the direction of traffic at the completion of the paving. Make a measurement at each side of the frame and average the two measurements. If this average is greater than 5/8 inch, reset the frame to the correct plane and elevation. If this average is 5/8 inch or less but greater than 3/8 inch, the city will allow the frame to remain in place but shall pay only 50 percent of the contract unit price for adjusting sanitary manhole frames. If the frame is higher than the adjacent pavement, then make the two measurements at each end of the straightedge and average them.

To prevent debris from entering the sanitary sewers, install approved protection barriers prior to any grading operation. These barriers will be removed by the contractor when frame adjustment is complete. There will be no additional compensation for the barriers.

Install manhole frame and cover as shown on the plan. Remove existing manhole frames and covers and deliver them to the Department of Public Works yard at 11100 Walnut Road, Wauwatosa WI 53226. Contact the Joe Ingrelli, City of Wauwatosa DPW Operations Supervisor at (414) 831-0803 to coordinate pick-up and delivery of manhole frames and covers

**D Measurement**

The department will measure Sanitary Manhole Frame and Cover by each individual unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.66	Sanitary Manhole Frame and Cover	EACH

Payment is full compensation for installing city supplied frame and cover, surveying, adjusting rings, adjusting the manhole to the finished grade and furnishing all materials, excavating, and disposal of surplus material, picking up city supplied frame and cover, and delivering existing manhole frames to the City of Wauwatosa.

**80. Abandoning Sanitary Manhole, Item SPV.0060.67.**

**A Description**

This special provision describes abandoning sanitary manholes.

**B Materials**

**B.1 General**

Furnish backfill slurry according to the pertinent requirements of standard spec 209 except as hereinafter modified. Use aggregates that conform to standard spec 501 for Grade A Concrete. Weigh aggregates at a batch plant suitable for batching concrete masonry. Mix and deliver to the project site using a truck mixer. Add enough water to enable the mixture to flow readily.

## **B.2 Backfill Slurry**

Backfill slurry shall meet the material and construction requirements of section 8.43.8 of the Standard Specifications for Sewer and Water in Wisconsin, latest edition.

## **C Construction**

### **C.1 General**

This work includes abandoning existing sanitary manholes in place, according to the plans, the Standard Specifications for Highway and Structure Construction, latest edition and amendments, Standard Specifications for Sewer and Water Construction in Wisconsin, latest edition and amendments (SSSW), the "Special Provision Notes for Sanitary Sewer Work" as found in the plans, and as hereinafter provided and these special provisions.

Contractor shall deliver all removed existing frames and covers to the DPW yard after the work is completed. Contact the Joe Ingrelli, City of Wauwatosa DPW Operations Supervisor at (414) 831-0803 to coordinate delivery of manhole frames and covers.

Remove existing frame and cover.

Clean manhole thoroughly. Plug the existing pipe with an 8-inch brick or concrete wall. Remove the walls of the structure to a depth of 3 feet below grade or to the base if directed by the engineer. Fill the excavation with backfill slurry, to existing surface or to appropriate depth for pavement restoration.

Maintain satisfactory bypass service during these operations.

Provide by-pass pumping of wastewater around the construction zone during working hours.

During non-work hours, provide temporary connection of replacement sanitary sewer to existing sanitary sewer to provide uninterrupted sanitary sewer service.

## **D Measurement**

The department will measure Abandoning Sanitary Manhole as a unit for 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.0060.67	Abandoning Sanitary Manhole	EACH

Payment is full compensation for furnishing and installing all materials; for surveying; for providing positive drainage of the area to be backfilled; for furnishing and placing backfill slurry; for salvaging frames and covers and for disposing of materials.

- 81. Tree Cell Planting System, Location No 1, Item SPV.0060.68;  
Tree Cell Planting System, Location No 2, Item SPV.0060.69;  
Tree Cell Planting System, Location No 3, Item SPV.0060.70;  
Tree Cell Planting System, Location No 4, Item SPV.0060.71;  
Tree Cell Planting System, Location No 5, Item SPV.0060.72;  
Tree Cell Planting System, Location No 6, Item SPV.0060.73.**

### **A Description**

This special provision describes supplying and installing a Tree Cell Planting System, related materials, components and activities including excavation, aggregate, geotextile, geogrid, all Pavement Support System components, root barriers, underground root ball anchoring, soil inspection portals, aeration/irrigation piping, surface inlets and planting soil.

### **B Materials**

Furnish the Tree Cell Planting System components as described below.

## **B.1 System Description**

The Tree Cell Planting System shall be constructed to provide large volumes of uncompacted soil for healthy tree growth under load-bearing pavement surfaces.

Specific to the site requirements, the Tree Cell Planting System shall have the flexibility to be assembled around existing structures, utilities and in tight constraints to achieve the specified soil volume. The system shall allow for easy disassembly and reassembly to allow for utility repair and/or maintenance within and below the system.

The Tree Cell Planting System shall be a complete system that includes, but is not limited to, the following integral components: Pavement Support System, geogrid/geofabric, aeration/irrigation piping, fittings and surface inlets, root management products, underground root ball anchoring system and inspection portals.

## **B.2 Components**

### Pavement Support System / Soil Cell System

1. For ease of installation and for future utility repair and/or maintenance, the Pavement Support System shall consist of two main components, an upright and a top deck. An interlocking side infill panel shall be available and installed adjacent to the roadway curb line.
2. The Pavement Support System shall have the ability to be uniformly stacked to increase the cubic volume of soil per area of installation, and to work around existing below ground infrastructure.
3. The assembled Pavement Support System shall at minimum, be capable of supporting vehicle loads according to AASHTO H-20/HS-20, including a safety factor of 1.5, when used in conjunction with approved vehicle rated pavement profiles.

## **B.3 Related Products**

### Ribbed Root Barrier

The Ribbed Root Barrier shall be designed to redirect tree roots down and away from pavement surfaces. Ribbed Root Barrier shall be installed vertically at specified locations, usually near the tree trunk and at the soil surface. Ribbed Root Barrier shall be manufactured to meet the following requirements:

1. Material shall be 100% recycled plastic.
2. Minimum Thickness: 0.04”.
3. Form: Linear rolls with vertical integral root training ribs.
4. Depth: 24”, as required per plan detail.
5. Roll Length: 100’ (30 m)
6. Color: Black
7. Seams shall be overlapped ~8” and sealed on both sides with joining tape.

### Root and Moisture Barrier

The Root and Moisture Barrier shall be designed as a linear membrane that is installed to prevent tree root growth and moisture intrusion in building foundations and underground utilities. The Root and Moisture Barrier may be installed vertically or horizontally, as specified on the plans. The Root and Moisture Barrier shall be manufactured to meet the following requirements:

1. Material shall be 100% recycled plastic.
2. Minimum Thickness: 0.04”.
3. Form: Linear rolls with a smooth surface.
4. Depth: 48”, as specified on the plans.
5. Roll Length: 100’ (30 m)
6. Color: Black
7. Seams shall be overlapped ~8” and sealed on both sides with joining tape.



### Rootball Aeration/Irrigation System

The Rootball Aeration/Irrigation System shall be designed to provide a means of getting air and water into the soil and rootzone, and a means of allowing organic gases from the decay of organic matter within the soil to escape. The Rootball Aeration/Irrigation System components shall be manufactured to meet the following requirements:

#### Aeration/Irrigation Pipe

1. Material shall be 100% recycled plastic.
2. Diameter: 2.375", as required per plan detail.
3. Form: Slit perforated pipe in rolls.
4. Connectors: Molded connectors (coupling, tee) to effect proper jointing.
5. Roll Length: 100'
6. Color: Black

#### Aeration/Irrigation Inlet

1. Body: Plastic
2. Grate: Plastic
3. Grate walking surface shall meet ADA requirements.

### Soil Aeration/Irrigation System

The Soil Aeration/Irrigation System shall be constructed to provide a means of getting air and water into the soil, and a means of allowing organic gases, from the decay of organic matter within the soil, to escape. The Soil Aeration/Irrigation System components shall be manufactured to meet the following requirements:

#### Pipe

1. Material shall be 100% recycled plastic.
2. Diameter: 4".
3. Form: Precut non-perforated pipe.
4. Length: ~20"
5. Color: Black

#### Aeration/Irrigation Inlet

1. Body: Stainless Steel
2. Grate: Stainless Steel

### Soil Inspection Portal

The Soil Inspection Portal shall be designed to allow for the sampling and inspection of the soil and/or water levels within the Pavement Support System and can be used as a means of adding nutrients to the soil. The Soil Inspection Portal components shall be manufactured to meet the following requirements:

1. Material shall be polyvinyl chloride (PVC) pipe.
2. Diameter: 4"
3. Cap: Flush cap installed flush with pavement surface.

### Geogrid Reinforcement for Soil

1. A geogrid meeting the following meeting the following requirements shall be placed on top of the Aggregate Sub-Base Course, beneath the Pavement Support System.
2. High-performance geogrid reinforcement for soil, constructed of high molecular weight and high tenacity polyester yarns utilizing a knitting process and polymeric coating to provide superior engineering properties. The geogrid shall be engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments.

3. GeoGrid Physical Properties:

Property	Imperial	Metric
Ultimate Strength (MD) <i>(ASTM D 6637 - Method A Single-Rib)</i>	3,600 lbs/ft	52.5 kN/m
Creep Limited Strength <i>(ASTM D 5262D 6992)</i>	2,323 lbs/ft	33.9 kN/m
Long-term Design Strength <i>(Sands, Silt and Clay)</i>	1,919 lbs/ft	28.0 kN/m
Product Weight	6.5 oz/sy	220.4 g/sqm

Geogrid with Integrated Non-Woven Geotextile:

1. A Geogrid with Integrated Non-Woven Geotextile meeting the following requirements shall be placed on top of the Pavement Support System and beneath the Aggregate Pavement Base Course.
2. The Geogrid with Integrated Non-Woven Geotextile is a high strength geogrid comprised of stretched monolithic polypropylene flat bars with welded junctions and a mechanically bonded filter geotextile welded within the geogrid structure. It is used for reinforcement of granular pavement base. The Geogrid with Integrated Non-Woven Geotextile shall be manufactured to meet the following requirements:

a. Geogrid Physical Properties:

Property	Units	Value
Mass per unit area	g/m <sup>3</sup>	250
Max tensile strength <i>(machine direction/cross machine direction)</i>	kN/m	≥ 40 / ≥ 40
Elongation at nominal strength <i>(machine direction/cross machine direction)</i>	%	≤ 8 / ≤ 8

b. Geotextile Properties

Property	Units	Value
Mass per unit area	g/m <sup>3</sup>	150
Max tensile strength <i>(machine direction/cross machine direction)</i>	kN/m	7.5 / 11
Elongation at nominal strength <i>(machine direction/cross machine direction)</i>	%	40 / 30
Puncture Force (x-s)	N	1,670
Opening size	mm	0.13
Water Permeability – flow rate H50	l/sm <sup>2</sup>	110

Rootball Anchoring System

1. The Rootball Anchoring System is a below grade system comprised of cables, spearhead, deadman or plate anchors and web strap used for anchoring a rootball into the ground. The Rootball Anchoring System shall be manufactured to meet the following requirements:
2. Material shall be as follows: stainless or galvanized steel cables, biodegradable web strapping, and plated steel tensioner
3. Anchorhead Type/Material: Plate/Zinc Plated-Steel

**B.4 Other Related Materials**

Aggregate Sub-Base Course (Specified as A Drainage Layer)

Coarse aggregate shall meet the following requirements:

1. Aggregate shall be an open-graded, self-compacting, angular stone produced from 100% crushed material.
2. All aggregate shall be clean and washed. Unless otherwise approved by the engineer, coarse aggregate for the Aggregate Sub-Base Course shall be uniformly graded as defined below:
  - a. Aggregate Sub-Base Course Physical Properties (AASHTO #56, 57, 6, 67, 68):

Sieve	#56	#57	#6	#67	#68
	Percent Passing				
1 1/2"	100	100	-	-	-
1"	95-100	95-100	100	100	100
3/4"	-	-	90-100	90-100	90-100
1/2"	25-80	25-80	20-55	-	-
3/8"	-	-	0-15	20-55	30-65
No 4	0-10	0-10	0-5	0-10	5-25
No 8	0-5	0-5	-	0-5	0-10
No 16	-	-	-	-	0-5
No 50	-	-	-	-	-

3. Sand shall not be an acceptable substitute for coarse aggregate.

Aggregate Sub-Base Course (Not Specified as A Drainage Layer)

1. An aggregate meeting one of the following specifications:
  - a. ASTM D1241-07, Type 1, Gradation B Standard Specification for Materials for Soil-Aggregate Sub-base, Base, and Surface Courses.

Sieve	Percent Passing
1 1/2"	100
1"	75-95
3/8"	40-75
No 4	30-60
No 10	20-45
No 40	15-30
No 200	5-15

- b. Wisconsin Department of Transportation aggregate that most closely meets the gradation of ASTM D1241-07.
2. Sand shall not be an acceptable substitute for aggregate.

Aggregate Base Course (Pavement Base – Non-Pervious Surface)

1. An aggregate meeting one of the following specifications:
  - a. ASTM D1241-07, Type 1, Gradation B Standard Specification for Materials for Soil-Aggregate Sub-base, Base, and Surface Courses.

Sieve	Percent Passing
1 ½"	100
1"	75-95
¾"	40-75
No 4	30-60
No 10	20-45
No 40	15-30
No 200	5-15

- b. Wisconsin Department of Transportation aggregate that most closely meets the gradation of ASTM D1241-07.
2. Sand shall not be an acceptable substitute for aggregate.

Planting Soil (Installed Within the Pavement Support System)

Planting soil shall be a blended mix consisting of the following ingredients and ratios:

70% topsoil as defined in standard spec 625.2 (1).

30% compost as defined in standard spec 632.2.3.1.

Planting soil shall be free of debris, rocks larger than ½-inch and having a pH range of 5.5 to 6.5 and an organic material content of 5% min. and 25% max.

Product Data: Submit planting soil blend composition data on topsoil and compost used in planting soil to engineer for approval prior to construction.

Backfill Material (Installed Around the Perimeter of the Pavement Support System)

The Backfill Material shall meet one of the following specifications:

- a. Open-graded, self-compacting, 3/8" to 3/4" angular crushed stone.
- b. Clean, compactable, native excavated material (structural fill), that is free from organic matter, frozen materials, stones larger than 3" in diameter, trash, other debris and other toxic substances injurious to plant material.
- c. Clean, compactable, coarse grained soil, meeting the following requirements,
  - i. Unified Soil Classification system for soil type GW, GP, GC with less than 30% fines, SW, and SC with less than 30% fines.

All materials, methods of construction, and workmanship shall conform to applicable requirements of ASTM and AASHTO Standards, unless otherwise specified.

The quality of material and the finished components shall be subject to inspection by the department. Such inspection may be made on-site upon delivery or at any point thereafter. The components shall be subject to rejection at any time if material fails to meet any of the specification requirements, even though sample components may have been accepted as satisfactory. Components rejected after delivery to the site shall be marked for identification and shall be removed from the site at once.

**C Construction**

**C.1 General**

Coordinate with the manufacturer the delivery of the Tree Cell Planting System to the project site. The system includes all components necessary for the assembly of the Tree Cell Planting System as required per the Drawings.

The manufacturer will provide a minimum of 4 hours on-site training and support during the system installation. This may be coordinated with the Pre-Installation Meeting.

## **C.2 Pre-Installation Meeting**

Prior to the installation of the Tree Cell Planting System and associated Work, meet with the Consultant(s), the contractor, the Tree Cell Planting System installer and project manager, the Manufacturer's representative, the Owner at their discretion and other parties concerned with the system installation and performance.

- Provide at least 72 hours advance notice to all participants attending the pre-installation meeting.
- The pre-installation meeting agenda will include, but is not limited to:
  - a. The review of required submittals,
  - b. Coordination and sequence of installation with other trades and the construction schedule,
  - c. Review of materials, system details and methods of installation,
  - d. Site specific considerations (ie: geotechnical, hydrology),
  - e. System layout and installation procedures,
  - f. Mock-up of the Tree Cell Planting System.

Preparing the site for the system installation including, but not limited to, excavation, temporary shoring, system installation, compaction, and backfilling.

Prepare a schedule and coordinate work under this section with other trades and disciplines impacting this work.

## **C.3 Testing Agency Services**

- Provide and pay for the services of an independent testing agency to perform the testing activities specified in this section. Testing agency shall be acceptable to the department.
- Test work according to specified standards. In the absence of a specified standard, comply with the relevant ASTM standard.
- Test Reports: Testing agency shall prepare test reports for all tests performed. Submit copies of test reports to engineer immediately upon their becoming available.

## **C.4 Submittals**

Provide submittals to engineer for review and acceptance not less than 14 days prior to start of installation of materials and products specified in this Section.

- Product Data: For each type of product, the manufacturer's product literature shall be submitted with technical data sufficient to demonstrate that the product meets these specifications.
- Test and Evaluation Reports: For soils and aggregates provide testing agency laboratory analysis.
- Shop Drawings: Drawings shall show all information needed to install the Pavement Support System including aggregate sub-base, horizontal and vertical dimensions and elevations.
- Provide manufacturer's warranty documentation.

## **C.5 Inspection**

All components shall be inspected for general appearance, dimensions, soundness, etc.

Upon completion of relevant excavation work, and prior to placement of geotextile and aggregate, the sub-base soil shall be inspected by the department or authorized representative.

Upon completion of the placement of the Pavement Support System (as specified) and geotextile, and prior to backfilling, the structure shall be inspected by specifying engineer or authorized representative and signed off on by the Consultant as acceptable and meeting manufacturer's recommendations.

Products with structural defects shall be immediately removed and replaced with acceptable parts. The specifying engineer, before final acceptance, shall carefully inspect repairs/replacements.

## **C.6 Delivery, Storage and Handling**

Unloaded, handle and store components in an area protected from traffic and in a manner to prevent damage. Inspect materials to ensure that specified materials have been received.

Plastic components may become brittle at cold temperatures. Use caution when handling plastic components below 15°F (-10°C).

Store all material on pallets, with pallet wrap intact until required for installation. Unwrap pallets carefully ensuring unstable sections don't collapse dangerously. Store units to avoid damage from other construction activities.

Protect geogrids and geofabrics from physical damage and from temperatures in excess of 150°F (65°C). Do not expose geogrids and geofabrics to direct sunlight for more than 7 days.

Ensure that all unrelated construction traffic be kept away from the limits of excavation until project is complete and final surface materials are in place.

## **C.7 Site Conditions**

Do not proceed with installation when subgrades, soils and planting soils are in a wet, muddy or frozen condition.

Before commencing work on site examine available documentation pertaining to site and determine nature and location of above ground and underground utilities.

Before proceeding with full scale excavation work, confirm nature of existing soil conditions and the drainage characteristics of existing soil.

Abandoned utilities encountered during excavation shall be removed and their ends plugged.

Active utilities encountered during excavation and not indicated in Contract Documents shall be reported immediately to consultant and utility owner who shall determine measures necessary to repair (if damaged), relocate, remove or work around the utility.

## **C.8 Installation**

Coordinate the installation with the product manufacturer to have the manufacturer on-site during product installation.

Locate underground utilities before proceeding with excavation.

Review manufacturer's installation procedures and coordinate Tree Cell Planting System installation with other work affected, such as grading, excavation, utilities, construction access, erosion control, etc.

Tree Pit Layout: Layout tree pit locations and dimensions using string lines, survey pegs and marking paint. Obtain Consultant's approval of layout before proceeding with excavation.

Tree Pit Depths: Confirm excavation depths with reference to finished pavement elevations. Allow for granular base course layer and, where applicable, drainage layer.

The assembled Pavement Support System may be walked on, but vehicular traffic is prohibited until properly backfilled and covered per Manufacturer's recommendations. Protect personnel and the installation against damage with highly visible construction tape, fencing, or other means until construction is complete.

### Excavation Below Grade

Excavation required for the installation of all pipes and structures shall be made to the depths and widths indicated on the Drawings (a minimum of 12" beyond all sides of at the base of the Pavement Support System is required for proper backfill). Ensure that the bottom of the excavation is firm and dry and, in all respects, acceptable to the department.

All objectionable material encountered within the limits indicated shall be removed and disposed of.

In excavation faces, all loose or protruding rocks shall be secured or otherwise removed to finished grade. All cut slopes shall be uniformly dressed to the slope, cross-section and alignment shown on the Drawings or as directed by the engineer.

Furnish, install, monitor and maintain excavation support (e.g., shoring, sheeting, bracing, trench boxes, etc.) as required by Federal, State and Local Laws, Ordinances, Regulations and Safety Requirements. Support the sides of excavation, to prevent any movement which could in any way reduce the width of the excavation below that necessary for proper construction and protect adjacent structures from undermining, settlement or other damage.

#### Sub-Grade Preparation and Grading

The sub-grade shall be unfrozen, level, and free of lumps or debris with no standing water, mud or muck. Do not use frozen materials or materials mixed or coated with ice or frost. Unless otherwise specified, a minimum 2,000 pounds per square foot bearing capacity is required.

If contractor fails to maintain the SUB-GRADE properly, the contractor shall remove the unsuitable material. If the bottom of any portion of the excavation is removed below the limits shown on the Drawings, it shall be restored to the elevation shown in the Drawings. Compacted native earthen fill is not acceptable.

If in the opinion of engineer, the SUB-GRADE, at or below the normal grade of the excavation as indicated on the Drawings, is unsuitable for construction; it shall be removed to such depth and width as the engineer may direct and be replaced with aggregate material as directed by the engineer.

#### Sub-Base Course Preparation / Installation

Install a 4" minimum thickness, leveling bed of Aggregate Sub-Base Course, across the bottom of the excavation. The Aggregate Sub-Base Course shall, when possible, extend 6" beyond the base of the Pavement Support System in all directions. The Aggregate Sub-Base Course shall be flat surface, free from lumps, debris or any other sharp materials.

The Aggregate Sub-Base Course (specified as a drainage layer) shall be compacted using a vibratory plate or compaction equipment to sufficiently settle and orient the individual stone facets, or as specified by the Consultant.

The Aggregate Sub-Base Course (not specified as a drainage layer) be compacted shall be compacted using a vibratory plate or compaction equipment to a minimum of 95% of the Standard Proctor Density, or as specified by the Consultant.

Place the Geogrid Reinforcement for Soil on top of the Aggregate Sub-Base Course. The Geogrid Reinforcement for Soil shall extend 6" beyond the base of the Pavement Support System in all directions. Overlap the Geogrid Reinforcement for Soil a minimum 12" or as recommended by the manufacturer.

#### Pavement Support System Installation

Installation procedure, as follows, shall be followed by the contractor. The contractor shall also reference the Manufacturer's Installation Guidelines, and where any discrepancy exists the Consultant reserves the right to contact the Manufacturer's Representative prior to continuation. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

Use a soluble paint, chalk, or string to mark the footprint of the Pavement Support System. Prior to the installation of Pavement Support System uprights, confirm tree pit dimensions and mark location of trees. Rectify discrepancies and errors. Ensure squareness prior to Pavement Support System placement.

Install Pavement Support System uprights in strict accordance with manufacturer's written instructions and installation diagrams. Prior to placement, check each upright for damage. Reject cracked, chipped and otherwise damaged components. Ensure that uprights in contact with the Aggregate Sub-Base Course are firmly seated, with no rocking. Ensure that uprights are mechanically interconnected both horizontally and, in multiple layers, vertically.

Upon completion of the Pavement Support System, wrap the sides of the system with Root and Moisture Barrier, or geogrid to prevent backfill material migration into the Pavement Support System. Take great care to avoid damage to the Root and Moisture Barrier or geogrid during placement. If damage occurs, repair that portion per manufacturer specifications.

The Pavement Support System should not be left exposed to extreme temperatures, high wind conditions, snow, ice or copious amounts of rainfall.

#### Accommodating Utilities Within the Pavement Support System

Utilities within the Pavement Support System should meet specifications as required by utility company's standards. This may require special treatments, barriers and details to achieve this.

### Installation of Planting Soil

Obtain Consultant's approval prior to filling the Pavement Support System with planting soil. Install planting soil after the installation of the SUB-DRAINAGE PIPING / UNDER DRAIN (as required), Pavement Support System uprights, root and moisture barriers and backfill material is in place.

Except as shown otherwise on Drawings completely fill all void spaces with planting soil. Place planting soil using an excavator bucket and spread with rakes or shovels

Keep outside perimeter of the Pavement Support System free of planting soil.

Planting soil shall be placed in lifts of 8" to 12" and foot compacted by walking through the planting soil. In no case shall the planting soil be compacted greater than foot compaction, after installation within the Pavement Support System. Note: the top deck is also an aeration layer allowing soil to be filled to top of the uprights.

### Installation of Aeration/Irrigation Piping and Inspection Portal

Lateral Aeration/Irrigation Piping: Install piping within top layer of Pavement Support System uprights in a complete connected circuit, within 12" of outer edge of matrix. Fit junctions and risers at maximum spacing of 12'.

Vertical Soil Inspection Portal: Place vertical piping within central opening of Pavement Support System lid.

Trim vertical pipes to 6" above finished pavement and support in vertical position by temporary staking. Seal open ends of pipes.

### Installation of Root Barriers and Root and Moisture Barriers

Install Ribbed Root Barriers and/or Root and Moisture Barriers as shown on drawings. Overlap barrier joints 8" and tape both sides of joint. Top edge of barriers shall be level with adjacent construction. Ensure that earth surfaces in contact with barriers are flat and free of sharp debris and stones to avoid puncturing barriers. Install Ribbed Root Barriers facing towards the tree.

### Backfilling the Perimeter

Place backfill material evenly around the perimeter of the Pavement Support System in 8" to 10" lifts and compact as specified below.

For compactable materials, each lift shall be compacted shall be compacted using a vibratory plate or compaction equipment to a minimum of 95% of the Standard Proctor Density. For self-compacting stone materials, each lift shall be compacted using a vibratory plate or compaction equipment to sufficiently settle and orient the individual stone facets, or as specified by the Consultant.

Take care to ensure that the compaction equipment doesn't damage the Root and Moisture Barriers, geogrid or Pavement Support System.

Continue backfilling the perimeter until it is backfilled within 10" to 12" of the top of the Pavement Support System uprights. No aggregate base course shall be placed on the top of the Pavement Support System until the side backfill has been placed and compacted.

### Installation of The Geogrid with Integrated Non-Woven Geotextile

Place the Geogrid With Integrated Non-Woven Geotextile horizontally on top of the Pavement Support System allowing it to extend 12" vertically down the sides of the Pavement Support System and 12" horizontally away from the Pavement Support System. For seams, overlap Geogrid With Integrated Non-Woven Geotextile a minimum 8".

### Installation of Aggregate Base Course for Pavement

Continue backfilling the perimeter and top of the Pavement Support System in 4" lifts, until specified depth is reached.

For compactable materials, each lift shall be compacted shall be compacted using a vibratory plate or compaction equipment to a minimum of 95% of the Standard Proctor Density. For self-compacting stone materials, each lift shall be compacted using a vibratory plate or compaction equipment to sufficiently settle and orient the individual stone facets, or as specified by the Consultant.



Only low-pressure tire or track vehicles shall be operated over the Pavement Support System during construction. No machinery should drive on top of the Pavement Support System until a minimum backfill and compaction is achieved. Dump trucks and heavy equipment shall not be operated within the Pavement Support System limits of excavation at any time. Where necessary the heavy equipment should unload in an area adjacent to the Pavement Support System and the material should be moved over the system with low-pressure tire or track equipment.

Ensure that all unrelated construction traffic is kept away from the limits of excavation until the project is complete and final surface materials are in place. No non-installation related loading should be allowed over the Pavement Support System until the final design section has been constructed (including pavement).

Place surfacing or paving materials over the Pavement Support System with care to avoid displacement of cover fill and damage to surrounding areas.

#### Site Quality Control

Compaction Tests: Testing agency shall perform compaction testing on sub-grade and on each layer of fill to determine compliance with specified compaction. Determine method and frequency of testing in consultation with engineer.

#### Installation of Concrete Curbs at Tree Openings

Confirm exact location of Tree Pit Openings. Cut geocomposite layer and fold back to expose Tree Pit Opening.

Form and pour concrete curbs along planting areas and tree pit openings as shown on the Drawings to prevent the aggregate base course from migrating into the planting soil.

#### Installation of Root Barrier Within the Tree Pit Openings

Place the Ribbed Root Barrier around the inside of the tree pit opening with ribs facing toward the tree. Extend Ribbed Root Barrier down to top of the Pavement Support System and up to level of planting soil within the tree pit. Lap root barrier joints 8" and tape both sides of joint.

#### Cleaning and Protection

Perform clean up during installation and upon completion of each phase of the work. Maintain the site free of soil, sediment, trash and debris. Remove excess soil materials, debris, and equipment from the site following completion of each phase of the work.

Repair damage to adjacent materials and surfaces resulting from installation of this work using mechanics skilled in remedial work of the construction type and trades affected.

#### Closeout Activities

Provide manufacturer's warranty.

### **D Measurement**

The department will measure Tree Cell Planting System by each location, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.68	Tree Cell Planting System, Location No 1	EACH
SPV.0060.69	Tree Cell Planting System, Location No 2	EACH
SPV.0060.70	Tree Cell Planting System, Location No 3	EACH
SPV.0060.71	Tree Cell Planting System, Location No 4	EACH
SPV.0060.72	Tree Cell Planting System, Location No 5	EACH
SPV.0060.73	Tree Cell Planting System, Location No 6	EACH

Payment is full compensation for supplying and installing the system, related materials, components and activities including excavation, aggregate, geotextile, geogrid, all Pavement Support System components, root barriers, underground root ball anchoring, soil inspection portals, aeration/irrigation piping, surface inlets, planting soil and disposal of all waste materials.

**82. Section Corner Monument, Item SPV.0060.74.**

**A Description**

Coordinate with Southeastern Wisconsin Regional Planning Commission (SEWRPC) for the perpetuation and replacement of a section corner (Public Land Survey System- PLSS) monument.

**B Materials**

SEWRPC will provide a pre-cast concrete monument or brass disk to be used to mark the PLSS corner.

Furnish base aggregate dense materials that conform to standard spec 305 and concrete, asphalt, topsoil or other materials depending on the surface surrounding the corner.

**C Construction**

SEWRPC will perpetuate existing section corner monument. The contractor is responsible to coordinate with SEWRPC and the WisDOT Project Manager throughout the perpetuation and replacement process. The engineer will contact SEWRPC at (262) 953-4295 at least two weeks before starting construction operations or the preconstruction meeting to allow for section corner monument perpetuation.

Contractor must excavate and completely remove the existing monument. Contractor is responsible for providing a backfilled 3 to 4-foot deep hole where existing monument was removed. Contractor is responsible to coordinate the materials and methodology to complete the construction of the surface surrounding the monument. This may include but is not limited to a 2' x 2' "box out" or 24" diameter core hole in concrete, asphalt pavement/paving rings, coring to facilitate poured in place monuments, topsoil, seed and mulching or other materials or methodologies as agreed to by the contractor and SEWRPC.

**Contact Information:**

Attn: Rob Merry  
Southeastern Wisconsin Regional Planning Commission  
W239 N1812 Rockwood Drive  
P.O. Box 1607  
Waukesha, WI 53187-1607  
Phone (262) 547-6721  
Cell (262) 953-4295  
Fax (262) 547-1103  
E-mail: rmerry@sewrpc.org

**D Measurement**

The department will measure Section Corner Monument by the 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.0060.74	Section Corner Monument	EACH

Payment is full compensation for all excavating; removal of existing monument, for placing and compacting backfill material; for disposing of surplus materials; for concrete or asphalt material, finishing of roadway or other surfaces, and for all coordination with SEWRPC.

SER-621.1 (20170530)

**83. Utility Line Opening, Item SPV.0060.75.**

**A Description**

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

**B (Vacant)**

## C Construction

Perform the excavation in such a manner that the utility in question is not damaged and the safety of the workers is not compromised.

Perform the utility line openings (ULOs) as soon as possible and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Give the engineer a minimum of three working days once utility line opening information is received to review all relevant design information prior to proposed utility construction. 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 include a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Approve and coordinate all utility line openings with the engineer. Notify the utility engineers or their agents of this work a minimum of 3 days prior to the work so they may be present when the work is completed.

Replace pavement over utility line opening trenches which are within the staged traffic area as directed by the engineer. Replace pavement and open to traffic within 24 hours of the excavation.

## D Measurement

The department will measure Utility Line Opening 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.0060.75	Utility Line Opening	EACH

Payment is full compensation for the excavation required to expose the utility line; backfilling with existing material removed from the excavation; compacting the backfill; restoring the site; and for cleanup.

Existing pavement, concrete curb, gutter, and sidewalk removals necessary to facilitate utility line openings are not considered part of or paid for under Utility Line Openings but are considered separate and measured and paid for separately as removal items.

Pavement replacement material, concrete curb, gutter, and sidewalk items will also be considered separate from Utility Line Openings and will be measured and paid for separately.

## 84. Decorative Fence, Item SPV.0090.01.

### A Description

This special provision describes furnishing and erecting an ornamental welded wire fence system of the style, strength, size, and color defined herein.

### B Materials

#### B.1 Structural Components

- All posts and rails used in the fence system shall be manufactured from coil steel having a minimum yield strength of 55,000 psi. The steel shall be galvanized to meet the requirements of ASTM A525 with a zinc coating weight of 0.60-1.0 ounces per square foot.
- Infill: Section infill wires shall be steel with a minimum yield strength of 50,000 psi. The steel shall be galvanized to meet the designation of "regular coating" according to requirements of ASTM A641.

#### B.2 Pretreatment:

1. A five stage non-chrome pretreatment shall be applied. The final stage shall be a dry-in-place activator which produces a uniform chemical conversion coating for superior adhesion.
2. Coating: Fence materials shall be coated with a TGIC polyester powder-coat finish system with BLACK finish. Epoxy powder coatings, baked enamel or acrylic paint finishes are not acceptable. The finish shall have a cured film thickness of at least 2.0 mils.

3. Tests: The cured finish shall meet the following requirements: 1. Humidity resistance of 1,000 hours using ASTM D2247. 2. Salt-spray resistance of 1,000 hours using ASTM B117. 3. Outdoor weathering shall show no adhesion loss, checking or crazing, with only slight fade and chalk when exposed for 3 years in Florida facing south at a 45 degree angle.

### **B.3 Fabrication**

- Fence Sections shall be manufactured with 1" square x 18 gauge (.049") tubing welded every 12" to the top and bottom of welded wire panels. Welded wire panels shall be comprised of [4 (.225"), 6 (.192")] gauge vertical wires and 6 (.192") gauge horizontal wires. 4 gauge vertical wires shall be placed 3½" on center. 6 gauge vertical wires shall be placed 1¾" on center. Horizontal wires shall be 6 gauge and spaced to provide style differences but no further apart than would allow substantial rigidity of vertical wires. Horizontal and vertical wires shall be assembled by automatic machines or other suitable mechanical means that will ensure accurate spacing and alignment of all members of the finished fabric. The wires shall be connected at every intersection by electric resistance welding according to all requirements in ASTM A185. Sections shall be capable of supporting a 550 lb. load applied vertically at midspan and a concentrated load of 225 lbs. applied horizontally at midspan without permanent deformation.
- Posts shall be 2" square x 16 (.065") gauge steel tubing. Posts shall be spaced 70" apart from inside face to inside face. Steel rail ends shall be screwed to terminal posts to receive the 1" square top and bottom rails. The rails shall be secured to the rail ends by stainless steel screws. Steel caps shall be provided with all posts.
- Residential and light commercial grade gates shall be assembled using gate uprights with 1" outside cross section dimensions having 7/8" tubes welded to them. A Fence Section shall then be cut to size and secured to two uprights using stainless steel screws. A 1" x .125" diagonal brace shall be provided, cut to length, cold galvanized, touched up, and screwed into position from the top hinge side to the bottom latch side of the gate. All gates shall support a 300 lb. vertical load on the latch side of the gate without collapsing.
- Heavy duty grade gate frames shall consist of 2" square x .125" wall gate uprights and 1.5" x 1.5" x .125" Uchannels for top and bottom members welded at each connection with a 1" x .125" wall diagonal brace welded into place. Infill of matching Fence Section shall be welded into frame.
- Furnish concrete for posts according to materials in 616.2.1

### **C Construction**

- Provide Shop Drawings to the engineer for review and acceptance showing all information needed to install the fence and demonstrate that the product meets these specifications.
- Install fence according to the manufacturer's instructions.
- Excavate post holes to proper depth to suit local conditions for stability and support of the fence system without disturbing the underlying materials. Excavate deeper as required for adequate support in soft and loose soils.
- Set fence posts in concrete footers at 70" spacing from inside of post to inside of post. Note that this fence must be stepped for installations on a slope. It cannot follow the grade.
- Center and align posts in holes to required depth. Place concrete around posts and tamp for consolidation. After tamping, check alignment of posts, and make necessary corrections before the concrete hardens.
- Insert rail ends into horizontal rails and fasten in place to the posts.

### **D Measurement**

The department will measure the Decorative Fence, 4-FT bid items by the linear foot, acceptably completed, measured from center to center of end posts.

**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	Decorative Fence	LF

Payment is full compensation for furnishing and placing all materials necessary to install Decorative Fence.

**85. Turtle Fence, Item SPV.0090.02.**

**A Description**

This special provision describes installing Turtle Fence in locations as directed by the engineer and hereinafter provided.

**B Materials**

Turtle Fence shall conform to standard spec 628.2.6

**C Construction**

Installation, inspection, repair, and maintenance of silt fence shall conform to standard spec 628.3.4 with the exceptions that the Turtle Fence shall be installed with fence stakes on the construction side of the fence, shall be installed with turn-arounds at the ends and at any access openings needed in the fencing, and shall be at least 24-inches high with at least 4-inches trenched into the soil and at least 20-inches exposed above ground. Soils shall be carefully compacted against both sides of the fence to prevent animals from using the stakes to maneuver over the fencing. If trenching is not possible due to soil conditions (e.g., rocks, tree roots), sand bags or other anchors may be used with approval from Endangered Resources Review staff (DNRERReview@wi.gov). Access openings shall be tightly secured with hay bales when construction-related activities are no occurring. Install fence turn-arounds conforming to the plan details.

**D Measurement**

The department will measure Turtle 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.0090.02	Turtle Fence	LF

Payment is full compensation for installing; inspecting, repairing; maintaining; and for all materials.

**86. 6-Inch PVC Storm Sewer, Item SPV.0090.03.**

**A Description**

This special provision describes the construction of 6-Inch PVC storm sewer.

**B Materials**

Use materials conforming to Chapter 8.10 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, and supplemented as follows:

Storm sewer shall be SDR 35 PVC pipe meeting ASTM D3034 standards as indicated on the plan.

**C Construction**

Use construction methods conforming to Section 608 of the standard spec.

**D Measurement**

The department will measure 6-Inch PVC Storm Sewer by the linear foot unit, acceptably completed.

**E Payment**

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

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

Payment is full compensation for furnishing and placing all materials, including caps, excavation, pipe bedding, and backfill.

**87. Marking Crosswalk Epoxy Block Style 12-Inch, Item SPV.0090.04.**

**A Description**

This special provision describes furnishing and installing Marking Crosswalk Epoxy Transverse Block Style, 12-Inch White as directed by the engineer, as shown on the drawings and as hereinafter provided.

Perform work under these items according to the requirements of standard spec 646 and the details as shown on the plans, with the exception of the differences noted here within.

**B Materials**

Furnish epoxy pavement marking and glass bead material according to the standard spec 646.

**C Construction**

Construction of pavement markings shall be according to manufacturer application and installation procedures, standard spec 646, and engineer.

All pavement marking areas shall be laid out by the contractor and then reviewed by the engineer. Approval of the marking layout shall be approved by the engineer prior to placement of material.

The contractor shall protect the pavement markings from damage and allow them to fully cure prior to allowing traffic to drive over markings. Any damage shall be corrected by the contractor at the contractor's expense.

**D Measurement**

The department will measure Marking Crosswalk Epoxy Block Style 12-Inch White in length by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Marking Crosswalk Epoxy Block Style 12-Inch White	LF

Payment is full compensation for preparing the surface, furnishing and installing all materials and incidentals necessary to complete the work.

- 88. Water Main, 6-inch, Item SPV.0090.05;**
- Water Main, 8-inch, Item SPV.0090.06;**
- Water Main, 12-inch, Item SPV.0090.07;**
- Water Main, 16-inch, Item SPV.0090.08;**
- Water Main, 20-inch, Item SPV.0090.09;**
- Water Main, 24-inch, Item SPV.0090.10.**

**A Description**

This work includes installing ductile iron water main at locations indicated in the drawings, conforming to the SSSW and as hereinafter provided.

## **B Materials**

### **B.1 General**

PVC Pipe shall be C-900 DR18 or less in conformance with AWWA C-900, ASTM D-3139, and ASTM F-477. The pipe shall have integral elastomer bell and spigot ends designed for a rubber gasket push-on-joint, restrain joint field lock, conforming to AWWA C111.

All joints shall be restrained.

Materials furnished by the City are found in the City Furnished Water Main Material article.

All permanent water distribution materials shall be manufactured in the USA.

Tracer wire shall be included on all water main installation.

### **B.2 Fittings**

All fittings shall be cement lined, ductile iron compact fittings furnished with mechanical joints conforming to ANSI/AWWA C153 and C111, according to section 8.22.0 of the SSSW and coated according to section 8.18.3 of the SSSW. All fittings shall be 350 psi rated water working pressure. Megalug retainer glands shall be used on all fittings. Glands shall be specifically rated for the main and lead material which is being used. All fittings shall be set and buttressed with concrete and/or hardwood blocks. Where sleeves are required, the contractor shall use solid iron sleeves, dual purpose sleeves, Romac Alpha couplings or Hymax Grip couplings or engineer approved equal for both metallic and non-metallic mains.

Where shown on the plans or as approved in writing by the engineer, restraint strapping shall follow section 4.9.0 of the SSSW with number and size of retaining rods recommended by pipe restraint manufacturer for the type and size of pipe used. Metallic water main bell-spigot joints may only use restraining glands in lieu of rodded bell restraints when approved in writing by the engineer.

All fittings and connections to appurtenances shall use coated, corrosion resistant nuts and bolts (Cor-Blue), which will be incidental to the cost of the fittings. All fittings shall be coated in polyethylene wrap per Chapter 8.21.0 of the Standard Specs.

### **B.3 Polyethylene Sheeting for Pipe Corrosion Protection**

Polyethylene sheeting conforming to ASTM D4976, Type I, Class B, color black, Grade E-1, 1200 psi tensile strength, minimum thickness of 8 mil. Tube diameter or sheet width shall conform to AWWA C105. Double wrap all fittings.

Furnish tape for polyethylene sheeting that is 2-inch wide, black tape with rubber adhesive and minimum 9 mil polyethylene backing. Tape shall be 3M™ Preservation Sealing Tape 481 or Scapa Sealing Tape No. 136.

### **B.4 Trench Insulation**

Extruded polystyrene board conforming to ASTM C578, Type V, rigid, closed cell type, with integral high density skin, Dow Chemical Company STYROFOAM™ Highload 100, Owens Corning Foamular 1000 or approved equal.

Thermal Resistance: Typical 5 year aged value of R-5 per inch of thickness per ASTM C518.

Board Size: 24-inch x 96-inch x 2-inch thick. Square edges. Compressive Strength: Minimum 100 psi per ASTM D1621.

Water Absorption: 0.7 percent by volume maximum per ASTM D2842.

All bedding, cover and backfill materials shall meet City Specifications and be approved by the City of Wauwatosa.

### **B.5 Tracer Wire**

In open cut/trench construction, all nonmetallic water mains, leads and services shall be installed with a minimum #12 AWG copper clad steel, blue coated, 30 mil minimum HDPE insulated, high strength (minimum 450 lb. break load) tracer wire intended for direct bury, according to Chapter 2.11.2 of the SSSW, APWA standards, and the City Specifications, as incidental to the cost of the pipe.

For trenchless installation, all nonmetallic water mains, leads, and services shall be installed with tracer wire as noted above, except it shall be aircraft cable, nylon coated, stainless steel, and 3/8-inch diameter.

Except where the engineer has given written approval for spliced-in connections, tracer wire systems shall be as continuous as practicable. Connections of tracer wire shall be in a low voltage, lockable, waterproof, underground, dielectric silicone filled connector, and shall be installed in such a manner as to prevent any exposure of uninsulated wire. Copperhead SnakeBite direct bury lug connector 3WB-01 or engineer approved equal shall be included in the material submittals. No friction fit, twist-on, or taped connectors are allowed. No looping, wrapping, or coiling of tracer wire is allowed. The wire shall be placed along the entire length of the pipe and taped on the top of the pipe at minimum 10 foot intervals. No spray coatings or taped coatings for the wire are allowed. No connections to conductive pipes, fittings, glands, stand pipes, sleeves, or any other non-tracer wire material are allowed – the entire conductive tracer system shall only be constructed of tracer wire and tracer wire connectors as described above. At the point of connection between metallic water main and any non-metallic water main, the mainline tracer wire shall go to ground using a connection approved in writing by the engineer to a Copperhead drive-in magnesium grounding anode rod, part # ANO-12, or equal as approved in writing by the engineer, with 20 feet of #12 AWG copper clad steel wire. Installation of the grounding anode rod shall be directly beneath and in-line with the water main. Excess wire from the grounding anode shall be trimmed to an appropriate length and not coiled.

All mainline dead-ends for non-metallic water mains shall go to ground using the same method described above.

## TESTING

All new tracer wire installations shall pass testing by locating them using typical 512Hz low frequency line tracing equipment, witnessed by the contractor and the engineer before full payment for all piping will be made. Continuity testing in lieu of actual line tracing shall not be accepted.

## TERMINATION/ACCESS

Wire shall be brought to the surface at all hydrants and curb stops, unless otherwise directed by the engineer. At hydrants, wire shall be brought to the surface inside a 2-inch PVC Schedule 40 vertical sleeve (minimum 3 foot bury depth) that is opposite the pumper nozzle on the back of the hydrant, with at least 24 inches of excess wire to allow for future locating and maintenance. A Tracer Wire access box by Bingham & Taylor, Inc. #P2B200NFG, Copperhead SnakePit #LD14BTP, or approved equal must be visible and accessible and be set to no more than 3 inches above finish grade.

For curb stops, the wire shall be run directly on the outside of the stand pipe all the way to the surface, and a MINIMUM 6 inches of excess "pigtail" coiled below the cap of the stand pipe. Wire shall NOT be terminated in mainline, branch service, or hydrant valve boxes unless otherwise directed in writing by the engineer.

For mains without services or hydrants, access locations shall use tracer wire access boxes as approved in writing by the engineer.

### **B.6 Bedding and Cover: shall be one of the following**

3/8 Inch Crushed Stone Chips (ASTM C-33 Size 8) according to Table 32 of Section 8.43.2 of the SSSW.

### **B.7 Trench Backfill: shall be one of the following**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to Section 305 Dense Graded Base of the WisDOT Standard Specifications for Road and Structure Construction, latest version.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

## **C Construction**

### **C.1 General**

According to Wisconsin Statute 182.0175, "Damage to Transmission Facilities," Excavator, as defined in 182.0175(1)(bm), shall be solely responsible to provide advance notice to "Diggers Hotline, Inc." (800) 242-8511 not less than three working days prior to commencement of any Excavation, as defined in the statute, required to perform work contained in this Project, and further, Excavator shall comply with all other requirements of this Statute relative to Excavation.

Before beginning excavation of trench, contractor shall uncover stub end of existing water main to which relay is to connect, to permit adjustments in line and grade and verify connection required.



## C.2 Installation of PVC Pipe

Join pipe and fittings by means of a compression type rubber gasket push-on joints conforming with AWWA C111.

Excavation and backfill for buried pipe shall conform to the SSSW.

Remove lumped subsoil, boulders, and rock. If rock is encountered, remove to provide a clearance of at least 12 inches below and on each side of pipe, valves, and fittings.

Lay and maintain water mains to lines and grades established in the plans with fittings, valves, and hydrants at required locations.

Trench preparation shall proceed in advance of pipe installation only as far as can be backfilled in the same day.

Contractor shall not deviate from types of excavation indicated in the plans without prior concurrence of engineer except in case of roadways, driveways, and obstructions that may be indicated in the plans as open trench sections.

Place and shape bedding material to pipe, to a minimum depth of three inches under bell and four inches under spigot and compact to 95 percent modified proctor density.

Lower water main, fittings, valves, and hydrants carefully into trench, by means of derrick, ropes, or other suitable tools or equipment, to prevent damage to water main materials and protect coatings and linings.

Lay pipe with bell ends facing direction of laying. When grade exceeds 2 feet of rise per 100 feet of trench, bells shall face upgrade.

Provide holes for bells at each joint but no larger than necessary for joint assembly and assurance that pipe barrel will lie flat on trench bedding.

Trench bedding shall be true and even in order to provide support for full length of pipe barrel, except a slight depression may be provided to allow withdrawal of pipe slings or other lifting tackle.

If pipe laying crew cannot put pipe into trench and in place without getting earth into it, engineer may require placing, before lowering pipe into trench, a heavy, tightly woven, canvas bag of suitable size over each end of pipe and leaving there until connected to adjacent pipe.

Do not place debris, tools, clothing, or other materials in pipe during laying operations. Assemble joint and bring pipe to correct line and grade as each length of pipe is placed in trench.

Take precautions to prevent foreign materials from entering joint space and carefully check joint recess for foreign material before installing gasket.

Remove lumps of clay, mud, cinders, and similar materials that may have accumulated on surface of pipe during storage or laying and encase pipe in polyethylene sheeting according to AWWA C105.

Secure pipe in place with bedding material, placed by hand or equally careful means, keeping bell end open. Remove pipe and fittings that do not allow sufficient and uniform space for joints and replace with pipe and fittings of proper dimensions to ensure such uniform space.

Upon daily and temporary completion of pipe installation, close open ends of pipe by a water-tight plug or other means approved by engineer. This provision applies during daytime inactivity as well as overnight.

If water is in trench, maintain pipe seal in place until water level is lowered four inches below pipe invert.

Whenever it becomes necessary to lay a main over, under, or around a known obstruction, contractor shall furnish and install required fittings. Laying of such fittings will be paid for at linear foot price for each size of main. No additional compensation will be paid to contractor for any expenses incurred because of such obstruction.

When an unknown underground structure interferes with work to such an extent that an alteration of the plans is required and alteration results in a change in cost to contractor, engineer will issue a written order for such altered work, specifying basis of payment or credit for such altered work.

Keep interior and exterior of pipe clean and free from foreign material before installation. Provide necessary means to wipe, brush, swab, or air blast to remove any foreign material from interior of pipe as instructed by pipe manufacturer and as directed by engineer.

Provide and place approved bedding sand and cover under and above water service to depths indicated in the plans. Provide and install crushed concrete backfill to depths indicated. Compact bedding sand and cover, and crushed concrete backfill to 95% modified proctor density.

### **C.3 Water Main Pressure Testing**

Pressure Testing:

After pipe has been laid, subject newly laid pipe or any valved section thereof to a hydrostatic pressure of at least 1.5 times working pressure at point of testing.

Tests pressures shall:

- Not exceed pipe or thrust restraint design pressures.
- Be of at least 2-hour duration.
- Not vary by more than plus or minus 5 psi for duration of test.
- Not exceed twice rated pressure of valves or hydrants when pressure boundary of test section includes closed gate valves or hydrants. NOTE: Do not operate valves in either direction at differential pressure exceeding rated pressure.
- Not exceed rated pressure of valves when pressure boundary of test section included closed, resilient seated gate valves or butterfly valves.

Slowly fill each valved section of pipe and apply specified test pressure, based on elevation of lowest point of line or section under test and corrected to elevation of test gage, by means of a pump connected to pipe acceptable to engineer.

Do not operate valves in either opening or closing direction at differential pressures above rated pressure.

Before applying specified test pressure, completely expel air from section of pipe under test.

If permanent air vents are not located at all high points, contractor shall install corporation cocks at such points to expel air as line is filled with water.

After all air has been expelled, close corporation cocks and apply test pressure. At conclusion of pressure test, remove corporation cocks and plug or leave in place at discretion of City of Wauwatosa.

Carefully examine exposed pipe, fittings, valves, hydrants, and joints during test.

Repair or replace any damaged or defective pipe, fittings, valves, or hydrants that are discovered following pressure test with sound material and repeat test until it is satisfactory to City of Wauwatosa.

### **C.4 Leakage Testing**

Leakage test may be conducted concurrently with pressure test.

Leakage shall be defined as quantity of water that must be supplied into newly laid pipe, or any valved section thereof, to maintain pressure within 5 psi of specified test pressure after air in pipeline has been expelled and pipe has been filled with water. Leakage shall not be measured by a drop in pressure in a test section over a period of time.

No pipe installation will be accepted if leakage is greater than that determined by following formula:

$$L = SD \text{ times Square Root of } P, \text{ divided by } 133,200$$

Where L is allowable leakage in gallons per hour; S is length of pipe tested in linear feet; D is nominal diameter of pipe in inches; and P is average test pressure during leakage test in pounds per square inch gage.

When hydrants are in test section, test shall be made against main valve in hydrant. Acceptance shall be determined on basis of allowable leakage. If any test of laid pipe discloses leakage greater than that specified, contractor shall, at its own expense, locate and make repairs or replacement.

### **C.5 Flushing and Disinfection**

Place calcium hypochlorite at upstream end of first section of pipe, at upstream end of each branch main, in first pipe section past valve, in hydrant leads, and at a minimum 500-foot interval in main.

Place the following amounts of calcium hypochlorite granules at beginning of main and at each 500-foot interval:

<b>Pipe Diameter (Inches)</b>	<b>Calcium Hypochlorite Granules (Ounces)</b>
4	0.5
6	1.0
8	2.0
12	4.0
16 and larger	8.0

Contractor may use tablets if prior approval is obtained from engineer. Procedure shall be as follows:

- Place one 5-gram calcium hypochlorite tablet in each hydrant, hydrant branch, and other appurtenance.
- Place 5-gram calcium hypochlorite tablets according to the following table in each section of pipe.

<b>Pipe Diameter (Inches)</b>	<b>Length of Pipe Section (feet)</b>				
	<b>&lt;13</b>	<b>18</b>	<b>20</b>	<b>30</b>	<b>40</b>
4	1	1	1	1	1
6	1	1	1	2	2
8	1	2	2	3	4
10	2	3	3	4	5
12	3	4	4	6	7
16	4	6	7	10	13
24	6	7	10	13	16

Based on 3.25 grams available chlorine per tablet, any portion of tablet rounded to next higher integer.

Attach tablets to inside and top at each end of newly installed pipe with an NSF 61 approved adhesive.

Do not apply adhesive to tablet except on broad side to be attached to surface of pipe.

If tablets are attached before pipe section is placed in trench, mark their position on section so it can be readily determined that pipe is installed with tablets at top.

When installation is completed, fill main with water at a rate such that water within main will flow at a velocity no greater than one foot per second.

Contractor shall separately meter and pay for water for filling and initial flushing of main.

Contractor shall provide labor and material necessary to transfer water from source to main to be tested. Only local City of Wauwatosa Water Utility employees shall operate valves.

Water shall enter main and be tested at low point in system to force entrapped air out at high end through an available hydrant or air release valve.

Close upper end hydrant or valve after air is expelled and chlorinated water discharge is present. Take precautions to assure that entrapped air is eliminated.

Water shall remain in pipe for at least 24 hours or as defined by regulatory requirements. If water temperature is less than 40 degrees F, water shall remain in pipe for at least 48 hours.

Position valves so that strong chlorine solution in main being treated will not flow into water mains in active service.

Water from new mains must successfully pass bacteriological test according to requirements of Wisconsin Department of Natural Resources.

Properly and securely brace and maintain excavation until successful testing, flushing, chlorinating, and sampling of main is completed.

Contractor shall be responsible for protecting any required excavation by means of proper barricades and lanterns during sampling and testing period.

Provide access to main for sampling as directed by engineer. Contractor will take necessary samples of water and obtain laboratory tests of samples.

Prior to flushing ANY water from the newly installed water main or existing water main system, the contractor shall adhere to the following requirements:

- The contractor shall apply for a General Wastewater Permit by submitting an eNOI or NOI along with any other additional information required to the Wisconsin Department of Natural Resources (WDNR) separately of the City of Wauwatosa WDPEs Permit. Contractor shall follow all requirements set forth within the issued permit and the contractor is solely liable for any violations of the requirements set forth within the permit by the WDNR. A copy of the permit shall be supplied to the city as record that the contractor has successfully received an approved permit from the WDNR. Contractors shall plan to submit an eNOI or NOI form to the WDNR at least 30 business days before the expected start date of discharge.

Submit the completed eNOI or NOI to Maya Welch, WDNR, by email at [maya.welch@wisconsin.gov](mailto:maya.welch@wisconsin.gov).

- If approved by the engineer, the contractor may elect to discharge flush water into the sanitary sewer system without being required to apply for a WDPEs Permit. Prior to discharging, the contractor must submit a local sewer flush plan that includes the discharge location into the sanitary sewer, the flow rate of the discharge, and the expected volume of the discharge. Discharge to the sanitary sewer shall not be permitted during a rain event or within 24 hours of a 1 inch or greater rainfall event within MMSDs service area. Discharge into the sanitary sewer system requires a minimum of 3 days' notice to the engineer and MMSD.

The contractor shall contact Micki Klappa-Sullivan at (414) 225-2178 or [mklappasullivan@mmsd.com](mailto:mklappasullivan@mmsd.com) and provide the date(s) of the planned flushing event and an approximate of how much water will be discharged into the sanitary sewer system.

#### **D Measurement**

The department will measure Water Main 6-inch, 8-inch, 12-inch, 16-inch, 20-inch or 24-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.0090.05	Water Main, 6-inch	LF
SPV.0090.06	Water Main, 8-inch	LF
SPV.0090.07	Water Main, 12-inch	LF
SPV.0090.08	Water Main, 16-inch	LF
SPV.0090.09	Water Main, 20-inch	LF
SPV.0090.10	Water Main, 24-inch	LF

Payment is full compensation for furnishing all materials unless denoted otherwise in the article City Furnished Water Main Materials; surveying; fittings, joint restraint, corrosion protection, insulation, pressure testing, flushing and disinfection, tracer wire, concrete buttresses, shoring, temporary piling, dewatering, and for excavating, backfilling, and compaction.

### **89. Water Main, 20-inch in 36-inch Steel Casing, Item SPV.0090.11.**

#### **A Description**

This special provision describes the installation of Water Main, 20-inch in 36-inch Steel Casing.

#### **B Materials**

Use materials conforming to Chapter 8.18 of the SSSW and as hereinafter provided, and as supplemented as follows:

Furnish water main pipe as specified in SPV0090.09, steel casing, spacers and end caps as specified in drawings.

Steel casing pipe shall be 0.563 inches minimum wall thickness, ASTM Grade B, 35,000 PSI minimum yield strength.

All permanent water distribution materials shall be manufactured in the USA.

**C Construction**

Use methods that conform to Chapter 4 and 6 of the SSSW and supplemented as follows:

Install at locations designated in the drawings.

**D Measurement**

The department will measure Water Main, 20-inch in 36-inch Steel Casing by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.11	Water Main, 20-inch in 36-inch Steel Casing	LF

Payment is full compensation for furnishing and placing all materials, surveying, pressure testing, flushing and disinfection.

The department will pay separately for 20-inch water main that is not in the steel casing under Water Main, 20-inch.

- 90. Water Lateral, 6-inch, Item SPV.0090.12;**
- Water Lateral, 8-inch, Item SPV.0090.13;**
- Water Lateral, 12-inch, Item SPV.0090.14.**

**A Description**

This special provision describes the installation of Water Lateral for 6-inch, 8-inch and 12-inch.

**B Materials**

Use materials conforming to Chapter 8.18 of the SSSW and as hereinafter provided and as supplemented as follows:

Furnish and install water main pipe as specified in SPV0090.05 through SPV00090.07 and as specified in drawings.

All permanent water distribution materials shall be manufactured in the USA.

**C Construction**

Use methods that conform to Chapter 4 of the SSSW and supplemented as follows:

The locations designated in the plan are to the best of city records. Determine the exact location of the services as they are verified in the field.

The installation of water laterals shall be considered nighttime work.

**D Measurement**

The department will measure Water Lateral, (size) by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.12	Water Lateral, 6-inch	LF
SPV.0090.13	Water Lateral, 8-inch	LF
SPV.0090.14	Water Lateral, 12-inch	LF

Payment is full compensation for furnishing all materials unless denoted otherwise; surveying; cap for portion of abandoned lateral, fittings, joint restraint, corrosion protection, insulation, connection to existing lateral, pressure testing, flushing and disinfection, tracer wire, concrete buttresses, shoring, temporary piling, dewatering, and for excavating, backfilling, and compaction.

91. **Water Main Removal, 6-inch, Item SPV.0090.15;**  
**Water Main Removal, 8-inch, Item SPV.0090.16;**  
**Water Main Removal, 12-inch, Item SPV.0090.17;**  
**Water Main Removal, 16-inch, Item SPV.0090.18;**  
**Water Main Removal, 20-inch, Item SPV.0090.19;**  
**Water Main Removal, 16-inch in Steel Casing, Item SPV.0090.20.**

**A Description**

This special provision describes the demolition and removal of existing water main piping, fittings and all appurtenances and disposing of all resulting materials as shown in the plans, according to SSSW Section 204 and as hereinafter provided.

This item includes removing existing steel, concrete, ductile iron and cast iron utility pipes. Removal of carrier pipes inside casing pipes is incidental to the item Water Main Removal.

**B Materials**

All permanent water distribution materials shall be manufactured in the USA.

**B.1 Trench Backfill: shall be one of the following**

Mechanically compacted 1-1/2 Inch Graded Aggregate according to Table 39 of Section 8.43.7 of the SSSW.

Mechanically compacted 1-1/4 Inch Crushed Recycled Concrete according to Section 305 Dense Graded Base of the WisDOT Standard Specifications for Road and Structure Construction, latest version.

Aggregate Slurry Backfill according to Section 8.43.8 of the SSSW.

**C Construction**

The contractor is responsible for the safe methods and sequence of controlled removal operations. As directed by the engineer, completely remove the existing water main to the extent required to avoid interfering with new construction work. Upon removal, water main piping becomes the contractor's property. Water main designated for removal shall be removed from the project site.

**D Measurement**

The department will measure Water Main Removal by the linear foot, acceptably completed, measured along the centerline of pipe, from one end of existing pipe to the other end of existing pipe. Quantity to be measured shall include the removal through valves and other fittings.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.15	Water Main Removal, 6-inch	LF
SPV.0090.16	Water Main Removal, 8-inch	LF
SPV.0090.17	Water Main Removal, 12-inch	LF
SPV.0090.18	Water Main Removal, 16-inch	LF
SPV.0090.19	Water Main Removal, 20-inch	LF
SPV.0090.20	Water Main Removal, 16-inch in Steel Casing	LF

Payment is full compensation for removing all water main as per the plans, details, schedules, and these special provisions, including but not limited to surveying, cutting and removal of pipe, fittings, spacers, annular fill, debris; and backfill.

92. **Abandoning Water Main with Fill, 12-Inch, Item SPV.0090.21;**  
**Abandoning Water Main with Fill, 16-Inch, Item SPV.0090.22.**

**A Description**

Perform the work according to the plans, the WisDOT Standard Specifications, the SSSW, and as hereinafter provided and these special provisions

**B Materials**

All materials and work required to abandon existing water main will conform to the SSSW.

**B.1 Cellular Concrete**

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**

Abandon water main according to Section 3.2.24 of the SSSW except modified to require all water main which is to be abandoned and has not been removed shall be filled with cellular concrete. Field verify water main has been decommissioned prior to abandonment.

In lieu of filling pipe, pipe may also be removed for complete abandonment if approved by the city.

**D Measurement**

The department will measure Abandon Existing Water Main with Fill (size) by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.21	Abandon Existing Water Main with Fill, 12-Inch	LF
SPV.0090.22	Abandon Existing Water Main with Fill, 16-Inch	LF

Payment is full compensation for surveying, providing all materials including all excavation and abandoning existing water main with cellular concrete; for providing backfill material, and surface restoration.

**93. Sanitary Sewer 8-Inch PVC, Item SPV.0090.23;  
Sanitary Sewer 12-Inch PVC, Item SPV.0090.24;  
Sanitary Sewer 15-Inch PVC, Item SPV.0090.25.**

**A Description**

This special provision describes the construction of 8-Inch, 12-Inch and 15-Inch PVC sanitary sewer.

**B Materials**

All materials and work required to install the sanitary sewer will conform to the SSSW.

**B.1 PVC Pipe**

The pipe shall be polyvinylchloride Pipe (PVC), ASTM D-3034 SDR-35. All fittings, including bends, shall be of the same material as the proposed sanitary sewer main. Material joining the fitting to the pipe shall be free from cracks and shall adhere tightly to each joining surface.

**B.2 Pipe Gaskets**

Sanitary sewer pipes shall have rubber gaskets conforming to ASTM F-477.

**C Construction**

**C.1 General**

Perform work under these items according to the details as shown in the plans and the requirements of the SSSW.

Notify the Milwaukee Metropolitan Sewerage District (MMSD) and City of Wauwatosa prior to construction at least three business days in advance. Notify, in writing, all businesses and property owners/occupants within the project limits to inform them of the project and to inform them of any temporary sewer service disconnections. Provide and maintain all necessary bypass pumping for sanitary sewer relay.

Construct 8-inch, 12-inch, and 15-inch pipe as shown in the plans.

Install relay at locations designated in the plan. The lateral connection locations designated in the plan are shown to the best of city records. Determine the exact location of the laterals as the existing services are exposed.

The City of Wauwatosa is acquiring MMSD and WDNR approvals for the proposed sanitary sewer relay work. No work shall begin on the sanitary sewer relays until such approval has been granted. Contact Nick Deming at (414) 479-3541 to confirm approvals have been obtained.

## **C.2 Laying of Pipe**

### **C.2.1 Bedding, Cover, Foundation and Backfill Material**

All sewer pipes shall be laid in a Standard Section, Class "C" bedding conforming to File No. 3 with modifications as specified in Section 3.2.6(i) for PVC pipe of the SSSW unless otherwise noted on the plans. Cover material for PVC pipe shall be the same as that specified in the SSSW for bedding.

Compact granular backfill mechanically to a minimum of 95% maximum density as determined by ASTM D1557, Method D (Modified Proctor Test) from the top of the pipe cover material to the surface of the trench. Special compaction equipment and measures are required where standard compaction equipment cannot be utilized. Flooding of backfill will not be allowed. Compact native backfill mechanically to a minimum of 90% maximum density as determined by ASTM D1557 (Modified Proctor Test) from top of pipe cover material to trench surface. Compaction of the excavated and granular backfill material shall be compacted to achieve uniform consolidation in conformance with section 2.6.14(b) of the "SWS".

### **C.2.2 Joints Between Dissimilar Pipe Materials**

Connect dissimilar pipe materials by shall be made with Fernco Strong Back RC 5000 Series Compression Couplings or approved equal. Install couplings in strict accordance with the manufacturer's recommendations. The cost of connecting dissimilar pipe materials with nonshear flexible compression coupling is incidental to the cost of sanitary sewer pipe.

### **C.2.3 Joints Between similar PVC Pipe Materials**

PVC couplings shall be used to connect existing PVC pipe to proposed PVC pipe. PVC couplings shall be of the same ASTM number and schedule rating as the pipes. All couplers shall be approved by the engineer before installation.

## **D Measurement**

The department will measure Sanitary Sewer 8-Inch, 12-Inch or 15-Inch by the linear foot of sewer, acceptably completed.

The pipe will be measured horizontally to the nearest foot, from center-to-center of manholes, to the end of the new pipe, or to the outside face of structures, whichever is applicable.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.23	Sanitary Sewer 8-Inch PVC	LF
SPV.0090.24	Sanitary Sewer 12-Inch PVC	LF
SPV.0090.25	Sanitary Sewer 15-Inch PVC	LF

Payment is full compensation for providing all materials including all pipe materials, fittings, and accessories required; for furnishing all asphaltic pavement removal and excavating; for surveying; for providing and placing pipe bedding and cover material; for laying pipe; for sealing joints and making connections to new or existing facilities; for backfilling and compaction; for leakage testing; for providing and maintaining all necessary bypass pumping for sanitary sewer relay; for removing existing pipe, and for cleaning out and restoring the work site.

## **94. Sanitary Sewer 6-Inch Lateral - Granular Backfill, Item SPV.0090.26.**

### **A Description**

This special provision describes the construction of Sanitary Sewer Lateral 6-Inch.



## **B Materials**

All materials and work required to install the sanitary sewer will conform to the SSSW.

### **B.1 PVC Pipe**

The pipe shall be polyvinylchloride Pipe (PVC), ASTM D-3034 SDR-35. All fittings, including bends, shall be of the same material as the proposed sanitary sewer main. Material joining the fitting to the pipe shall be free from cracks and shall adhere tightly to each joining surface.

### **B.2 Pipe Gaskets**

Sanitary sewer pipes shall have rubber gaskets conforming to ASTM F-477.

### **B.3 Trench Insulation**

As noted on the plans.

Extruded polystyrene board conforming to ASTM C578, Type V, rigid, closed cell type, with integral high density skin, Dow Chemical Company STYROFOAM(tm) Highload 100, Owens Corning Foamular 1000 or approved equal.

Thermal Resistance: Typical 5 year aged value of R-5 per inch of thickness per ASTM C518.

Board Size: 24 x 96 x 2-inch thick. Square edges.

Compressive Strength: Minimum 100 psi per ASTM D1621.

Water Absorption: 0.7 percent by volume maximum per ASTM D2842.

## **C Construction**

### **C.1 General**

Perform work under these items according to the details as shown in the plans and the requirements of the SSSW.

Notify the Milwaukee Metropolitan Sewerage District (MMSD) and City of Wauwatosa prior to construction at least three business days in advance. Notify, in writing, all businesses and property owners/occupants within the project limits to inform them of the project and to inform them of any temporary sewer service disconnections. Provide and maintain all necessary bypass pumping for sanitary sewer lateral relay.

Construct 6-inch pipe as shown in the plans.

Install relay at locations designated in the plan. The lateral connection locations designated in the plan are shown to the best of city records. Determine the exact location of the laterals as the existing services are exposed.

The City of Wauwatosa is acquiring MMSD and WDNR approvals for the proposed sanitary sewer relay work. No work shall begin on the sanitary sewer relays until such approval has been granted. Contact Nick Deming at (414) 479-3541 to confirm approvals have been obtained.

Sanitary Sewer 6-Inch Lateral shall be installed to relay existing sanitary service as shown on the plan. In-line wye connections shall be installed on sanitary sewer relays to reconnect existing sanitary sewer laterals presently in service and/or as directed by the engineer. The locations of the existing sanitary sewer laterals are shown based on available records and actual locations may vary. Existing laterals shall be reconnected using appropriate bends and approved adapters as directed by the engineer. Existing sanitary laterals shall be located prior to installing the new wye connections or risers in relay sections.

Inspect the existing lateral at the connection point to verify that pipe is in good condition and free of obstruction and report the inspection to the engineer prior to making the final connection.

Sanitary laterals shall be relayed so there is at least 6" between the bottom of the proposed storm sewer and the top of the proposed building sewer.

### **C.2 Laying of Pipe**

#### **C.2.1 Bedding, Cover, Foundation and Granular Backfill Material**

Granular backfill as noted on the plans.

All sewer pipe shall be laid in a Standard Section, Class "C" bedding conforming to File No. 3 with modifications as specified in Section 3.2.6(i) for PVC pipe of the SSSW, unless otherwise noted on the plans. Cover material for PVC pipe shall be the same as that specified in the SSSW for bedding.

Compact granular backfill mechanically to a minimum of 95% maximum density as determined by ASTM D1557, Method D (Modified Proctor Test) from the top of the pipe cover material to the surface of the trench. Special compaction equipment and measures are required where standard compaction equipment cannot be utilized. Flooding of backfill will not be allowed. Compact backfill mechanically to a minimum of 90% maximum density as determined by ASTM D1557 (Modified Proctor Test) from top of pipe cover material to trench surface. Compaction of the excavated and granular backfill material shall be compacted to achieve uniform consolidation in conformance with section 2.6.14(b) of the "SWS".

**C.2.2 Joints Between Dissimilar Pipe Materials**

Connect dissimilar pipe materials by shall be made with Fernco Strong Back RC 5000 Series Compression Couplings or approved equal. Install couplings in strict accordance with the manufacturer's recommendations. The cost of connecting dissimilar pipe materials with nonshear flexible compression coupling is incidental to the cost of sanitary sewer pipe.

**C.2.3 Joints Between similar PVC Pipe Materials**

PVC couplings shall be used to connect existing PVC pipe to proposed PVC pipe. PVC couplings shall be of the same ASTM number and schedule rating as the pipes. All couplers shall be approved by the engineer before installation.

**D Measurement**

The department will measure Sanitary Sewer 6-Inch Lateral – Granular Backfill by the linear foot, acceptably completed from center of manhole, sanitary main, or if a mid-section relay from start of lateral relay; to the end of the pipe laid, whichever is applicable.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.26	Sanitary Sewer 6-inch Lateral - Granular Backfill	LF

Payment is full compensation for providing all materials including all pipe materials, fittings, and accessories required; for surveying; for furnishing all asphaltic pavement removal and excavating; for providing and placing pipe bedding and cover material; for laying pipe; for sealing joints and making connections to new or existing facilities; for backfilling and compaction; for leakage testing; for providing and maintaining all necessary bypass pumping for sanitary sewer relay; for removing existing pipe, and for cleaning out and restoring the work site. No additional payment shall be made for any exploratory work needed to locate existing sanitary laterals.

- 95. Abandoning Sanitary Sewer 6-Inch, Item SPV. 0090.27;**
- Abandoning Sanitary Sewer 8-Inch, Item SPV. 0090.28;**
- Abandoning Sanitary Sewer 10-Inch, Item SPV. 0090.29;**
- Abandoning Sanitary Sewer 15-Inch, Item SPV. 0090.30.**

**A Description**

This special provision describes abandoning sanitary sewer pipes.

**B Materials**

**B.1 General**

All materials and work required to abandon existing sanitary sewers will conform to the SSSW. Removing sewers and properly bulkheading can be completed in lieu of abandoning in place.

**B.2 Cellular Concrete**

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.

**B.3 Backfill Slurry**

Backfill slurry shall meet the material and construction requirements of section 8.43.8 of the SSSW.

**C Construction**

Perform work under these items according to the details as shown on the plans and the requirements of the SSSW.

Notify the Milwaukee Metropolitan Sewerage District (MMSD) and City of Wauwatosa of the commencement of construction at least three district business days in advance. Notify, in writing, all businesses and property owners/occupants within the project limits to inform them of the project and to inform them of any temporary sewer service disconnections. Provide and maintain all necessary bypass pumping for sanitary sewer abandonment.

Bulkhead sewers that are to be abandoned in place with an 8-inch brick or concrete wall. Fill all sewers with cellular concrete.

**D Measurement**

The department will measure Abandoning Sanitary Sewer (size) by the linear foot, acceptably completed, measured horizontally to the nearest foot, through all manholes designated to be abandoned, from face to face of bulkheads, including the bulkhead thickness.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.27	Abandoning Sanitary Sewer 6-Inch	LF
SPV.0090.28	Abandoning Sanitary Sewer 8-Inch	LF
SPV.0090.29	Abandoning Sanitary Sewer 10-Inch	LF
SPV.0090.30	Abandoning Sanitary Sewer 15-Inch	LF

Payment is full compensation for providing all materials including all excavating; for surveying; for bulkheading and abandoning existing sanitary sewer with cellular concrete; for providing backfill slurry material; and for providing and maintaining all necessary bypass pumping for abandonment.

**96. Steel Pedestrian Railing at Sta 154+60, SPV. 0090.37**

**A Description**

This special provision describes furnishing and installing Steel Pedestrian Railing, according to the pertinent provisions of standard spec 513, and as hereinafter provided.

**B Materials**

Prior to fabrication, contractor to provide shop drawings matching the existing steel railing design.

Railing shall be gloss black in color, unless otherwise indicated. Submit color sample and shop drawing of railing design prior to fabrication. This color sample shall include the manufacturer’s name and the manufacturer’s color.

**C Construction**

Install railing as specified in the plans using appropriate anchor hardware and in accordance with standard spec 513.

**D Measurement**

The department will measure Steel Pedestrian Railing at Sta 154+60 by the linear feet, 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.0090.37	Steel Pedestrian Railing at Sta 154+60	LF

Payment is full compensation for furnishing and installation of approved railing including all hardware and fittings necessary to install Steel Pedestrian Railing.

## 97. Wall Modular Block Gravity R-40-733, Item SPV.0165.01.

### A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

### B Materials

#### B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Modular Block Gravity Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: [DOTDLStructuresFabrication@dot.wi.gov](mailto:DOTDLStructuresFabrication@dot.wi.gov).

#### B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to [105.2](#) with electronic submittal to the fabrication library under [105.2.2](#). Certify that shop drawings conform to quality control standards by submitting department form [DT2329](#) with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11-inch x 17-inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11-inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls shall be designed for a minimum live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. Internal stability shall also be considered at each block level. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The width of the modular block (front face to back face) shall be included in the design computations and shown on the wall shop drawings. Blocks must have a minimum width of 8 inches. Block widths may vary among courses but shall consist of only a single block. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Wall facing units shall be designed according to AASHTO LRFD 11.10.2.3.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on concrete leveling pads. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Concrete leveling pads shall be as wide as the proposed blocks plus 6 inches, with 6 inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

### **B.3 Wall System Components**

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

#### **B.3.1 Wall Facing**

Wall facing units shall consist of precast modular concrete blocks. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec. [501.2.1](#) or may substitute for portland cement at the time of batching conforming to standard spec. [501.2.6](#) for fly, [501.2.7](#) for slag, or [501.2.8](#) for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured according to ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02" and longer than 25% of the nominal height of the unit, chips larger than 1", have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either:

- Solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material.
- A formed cast-in-place concrete cap. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Block dimensions may vary no more than  $\pm 1/8$  inch from the standard values published by the manufacturer. Blocks must have a minimum width (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is  $1\frac{3}{4}$  inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

For concrete leveling pad, use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

### B.3.2 Material Testing

Provide independent quality verification testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140	5000 min.	4000 min.
Air Content (%)	AASHTO T152	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140	6 max. <sup>[3]</sup>	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262 <sup>[1]</sup>	1.0 max. <sup>[2][3]</sup> 1.5 max. <sup>[2][3]</sup>	N/A

<sup>[1]</sup> Test shall be run using a 3% saline solution and blocks greater than 45 days old.

<sup>[2]</sup> Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

<sup>[3]</sup> The independent testing laboratory shall control and conduct all sampling and testing. Prior to sampling, the manufacturer's representative shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project. If a random sample of five blocks of any lot tested by the department fails to meet any of the above testing requirements, the entire lot will be considered non-conforming.

The contractor and fabricator shall coordinate with the independent testing agency to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number and lot size

Testing of project materials shall be completed not more than 18 months prior to delivery. Independent testing frequency shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day's production for wet-cast blocks. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

### **B.3.3 Backfill**

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate Size No. 1 as given in standard spec 501.2.5.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

A layer of Geotextile Type "DF" (Schedule B) shall be placed vertically between the backfill and the Type A backfill. The geotextile shall extend from the top of the leveling pad to 6 inches below the surface of the retained soil. The geotextile shall then wrap across the top of the Type A backfill to the back of block wall facing.

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Granular Backfill Grade 1 as contained in standard spec 209.2.2. The contractor may substitute Type A Backfill for Granular Backfill Grade 1.

## **C Construction**

### **C.1 Excavation and Backfill**

Excavation and preparation of the foundation for the wall and the leveling pad shall be according to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

### **C.2 Compaction**

Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks.

### **C.3 Wall Components**

Erect wall facing units and other associated elements according to the wall manufacturer's construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer's directions.

### **C.4 Geotechnical Information**

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

## D Measurement

The department will measure Wall Modular Block Gravity by the square foot acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Wall Modular Block Gravity R-40-733	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for parapets, traffic barriers, railings, and other items above the wall cap or coping.

## 98. Remove, Salvage and Reinstall Pavers, Item SPV.0165.02.

### A Description

This special provision describes removing salvaging and reinstalling existing pavers.

### B Materials

Furnish base aggregate dense conforming to standard spec 305.2.

Sand for joints shall be polymeric sand. Color shall be selected to resemble paver color as approved by the engineer.

### C Construction

Remove the existing pavers in a way that prevents damaging the pavers to the location shown on the plans. If the contractor damages the paver through its own operations, then the contractor shall replace them at no expense to the department.

Store materials in a safe location until they are ready to be reinstalled. Prior to installation clean pavers of any attached mortar, asphalt or other construction type debris.

Reinstall the salvaged pavers back to original layout and configuration on compacted base aggregate dense 1¼-inch to abut pavers constructed over a concrete base and asphaltic setting bed at locations shown on the plan. Dispose of excess pavers not needed to complete work. The joints of the salvaged pavers shall be backfilled with polymeric sand according to manufacturer's recommendations.

### D Measurement

The department will measure Remove, Salvage and Reinstall Pavers as a square foot, acceptably completed.

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.02	Remove, Salvage and Reinstall Pavers	SF

Payment is full compensation for removing the existing driveway pavers, storing, for installing on compacted base aggregate dense 1¼-inch, backfilling joints with polymeric sand, and disposal of excess pavers.



**99. Remove, Salvage and Reinstall Landscaping Rocks, Item SPV.0165.03.**

**A Description**

This special provision describes removing salvaging and reinstalling existing landscaping rocks.

**B (Vacant)**

**C Construction**

Remove the existing landscaping rocks in a clean and organized manner.

Store materials in a safe location until they are ready to be reinstalled. Prior to installation clean landscaping rocks of any construction type debris.

Reinstall the salvaged landscaping rocks back to original depth and configuration.

The contractor has the option to replace landscaping rocks with similar size and color if approved by property owner.

**D Measurement**

The department will measure Remove, Salvage and Landscape Rocks as a 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.0165.03	Remove, Salvage and Reinstall Landscaping Rocks	SF

Payment is full compensation for removing the existing landscaping rocks, storing, and reinstalling to the condition the landscaped area was in prior to construction.

**100. High Friction Green Surfacing, Item SPV.0165.04.**

**A Description**

This special provision describes providing furnishing and applying a high friction surfacing system according to this Section and in conformity with the lines and details shown on the plans. The field installed system shall consist of a Methyl Methacrylate (MMA) resin system that is used for pavement area markings and anti- skid surfacing to provide high friction resistance and the desired color. The color of the High Friction Colored Surface shall be Bike Lane Green.

The manufacturer’s technical representative shall come to the construction site to train department and contractor personnel prior to surface treatment and shall be available during application as necessary.

**B Materials**

General: Use Color-Safe Pavement Marking with Anti-Skid Surface by Transpo Industries or an approved equal. Use a MMA based resin system capable of retaining an aggregate topping under vehicular traffic conditions. Install High Friction Colored Surface according to manufactures specifications.

The MMA based resin system shall comply with chromaticity requirements according to MUTCD Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes.

**MMA Based Resin System:** The MMA based resin system shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	1000	ASTM D 638
Hardness, Shore D, minimum	80	ASTM D 2240
Gel Time, minutes, minimum	10	ASTM D 2471
Cure Rate, hours, maximum	3	Film@ 75°F
Water Absorption @ 24 hours, max.	0.25%	ASTM D 570

**Aggregate:** The aggregate shall be high friction crushed Bauxite, Granite, or gravel. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Aggregate Abrasion Value,	maximum 20	LA Abrasion
Aggregate Grading,		
No 6 Sieve Size,	minimum passing, 95%	
No 16 Sieve Size,	maximum passing, 5%	
Aggregate Color Green		

**Certification:** Finished surface shall have a minimum 60 FN40R according to ASTM E274) of vehicular bearing surface using the modified epoxy binder.

### C Construction

**General:** Apply High Friction Colored Surface according to manufactures specifications.

**Preparation:** Prepare surfaces so that they are clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces. The manufacturer's representative will determine if all surfaces have been adequately cleaned.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the engineer. Remove by grinding any pavement markings that conflict with the surface application and thoroughly sweep or vacuum the surface clean prior to the epoxy binder application.

Pre-treat joints and cracks greater than 1/4 inches in width and depth with the mixed epoxy specified herein or by using an alternative procedure proposed by the manufacturer and agreed upon by the engineer. Proceed with the epoxy binder and aggregate topping installation once the epoxy, in the pre-treated areas, has gelled or once the alternative procedure has been accomplished.

For applications on new pavements, install the high friction epoxy binder and aggregate topping a minimum of 20 days after the placement of the underlying and adjacent pavement.

**Mixing and Application of MMA based resin system and Aggregate Wearing Course:** Utilize one of the following methods for the application of the MMA based resin system, as applicable.

- a. **Hand mixing and application:** Proportion the MMA based resin system as recommended by the manufacturer, and mix using a low speed, high torque drill fitted with a helical stirrer. Hand-apply the mixed components onto a prepared pavement surface at a thickness recommended by the manufacturer. Uniformly spread hand-applied base binder onto the substrate surface by means of a serrated edge squeegee.
- b. **Mechanical mixing and application:** Apply the MMA based resin system material by a truck mounted application machine onto the pavement section to be treated in varying widths at a uniform application thickness. Proceed with operations in such a manner that will not allow the MMA based resin system material to separate in the mixing lines, cure, dry, or otherwise impair retention bonding of the high friction surfacing aggregate. Apply the mixed components mechanically onto the prepared pavement surface with a uniform thickness of 50 to 100 mils. Immediately, mechanically apply the high friction surfacing aggregate in a uniform, continuous manner.

For either of the above methods, do not use vibratory or impact type compaction on the aggregate after placement. Use only lightweight rollers to seat the aggregate topping without crushing the aggregate. Complete coverage of the "wet" MMA based resin system material with aggregate is necessary to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed.

**Curing:** Allow the high friction aggregate topped MMA based resin system to cure according to manufacturer recommendations. Protect treated surfaces from traffic and environmental effects until the area has cured.

**Removal of Excess Aggregate:** Remove the excess aggregate by hand brooms, mechanical sweeping, or vacuum sweeping before opening to traffic. Excess aggregate can be reused on the following day's installation, provided the aggregate is clean, uncontaminated, and dry.

The engineer may require additional mechanical or vacuum sweeping as necessary after the system fully cures and the treated surface is open to traffic.

## PERFORMANCE REQUIREMENTS

**Raveling and Delamination:** Remove and replace high friction colored surface treatment that ravel, delaminates, or wears off within 90 days after placement, unless approved to remain in place by the engineer. The limits of removal and replacement shall be approved by the engineer. The replaced high friction colored surface treatment shall meet the requirements of this sub-article.

**Warranty:** The MMA based resin system material shall be installed per plans and specification. The engineer will notify the contractor within 48 hours of installation regarding any of the MMA based resin system material that is installed not to specification or to the satisfaction of the engineer. Non-conforming MMA based resin system material shall be removed at no charge to the city and replaced with conforming product.

The warranty period in reference to the following points is to be 1 year from date of installation. Warranty of the following items shall be submitted in writing by the contractor or his installer prior to the pre-construction meeting.

- The MMA based resin system material will maintain its original color in the surface area throughout the 'warranty period' with the exception of natural weathering, tire and dirt deposits and abnormal markings applied after installation.
- Friction will achieve a minimum BPN of 60 according to ASTM E-303.
- The MMA based resin system material will maintain its skid resistance qualities in 100% of its surface area to never fall below a BPN of 60 during the 'warranty period'.
- With the exception of structural cracking or excessive movement of the surface beneath the two-part modified epoxy material will not be subject to excessive cracking in its surface.

### D Measurement

The department will measure High Friction Colored surface in square foot, acceptably completed. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.04	High Friction Green Surfacing	SF

Payment is full compensation furnishing and installing High Friction Green Surfacing materials including any re-application or repair required under the Performance Requirements and Warranty as provided herein.

## 101. Permeable Pavers, Item SPV.0165.05.

### A Description

This special provision describes installing permeable pavers with bedding course; for cutting of pavers to fit and setting pavers as shown on plans, and as hereinafter provided. Construction work includes installation and grading of bedding course and installation and cutting of pavers.

## **B Materials**

Paver Manufacturer:

Unilock Wisconsin  
Contact: Melissa Wessing (262) 742-3890  
W4814 County Highway A  
Elkhorn, WI 53121

Paver Type: Permeable Paver Unilock Eco-Optiloc

Color: Granite  
Finish: Standard  
Color pigment material standard comply with ASTM C979  
Edge: Chamfer – 3mm bevel  
Size: 10¼-inches x 10¼-inches x 3¼-inches thick with a maximum tolerance of  $\pm 1/16$  in all directions

## **C Construction**

General: Keep area where pavement is to be constructed free from sediment during entire jobs. Geotextiles, base and bedding materials contaminated with sediment shall be removed and replaced with clean materials.

Bedding Layer:

- Moisten, spread and screed the bedding material.
- Fill voids left by removed screed rails with bedding material.
- The surface tolerance of the screed bedding material shall be  $\pm 3/8$ -inch.
- Do not subject screened bedding material to any pedestrian or vehicular traffic before paving unit installation begins.

Permeable interlocking pavers and joint/opening fill material

- Lay the paving units in the pattern(s) and joint widths shown on the drawings. Maintain straight pattern lines.
- Fill gaps at the edges of the paved areas with cut units. Cut pavers subject to tire traffic shall be no smaller than 1/3 of a whole unit.
- Cut pavers and placed along the edges with a double-bladed splitter or masonry saw.
- Fill the openings and joints with bedding material.
- Remove excess aggregate on the surface by sweeping pavers clean.
- Compact and seat the pavers into the bedding material using a low-amplitude, 75-90 Hz plate compactor capable of at least 5,000-lfb. This will require at least two passes with the plate compactor.
- Do not compact within 6-ft of the unrestrained edges of the paving units.
- Apply additional aggregate to the openings and joints if needed, filling them completely. Remove excess aggregate by sweeping then compact the pavers. This will require at least two passes with the plate compactor.
- All pavers within 6-ft of the laying face must be left fully compacted at the completion of each day.
- The final surface tolerance of compacted pavers shall not deviate more than  $\pm 3/8$ -inch under a 10-ft long straightedge.
- The surface elevation of pavers shall be 1/8 to 1/4-inch above adjacent drainage inlets, concrete collars or channels.

Field Quality Control:

- After sweeping the surface clean, check final elevations for conformance to the drawings.
- Lippage: No greater than 1/8-inch (3mm) difference in height between adjacent pavers.
- The surface elevation of pavers shall be 1/8 to 1/4-inch above adjacent drainage inlets, concrete collars or channels.
- Bond lines for paver courses ± 1/2-inch over a 50-ft string line.
- Verify the surface infiltration at a minimum of 100 inch/hour using test method C 1781.

Protection and Maintenance

- After work in this section is complete, the general contractor shall be responsible for protecting work from sediment deposition and damage due to subsequent construction activity on the site.

**D Measurement**

The department will measure Permeable Pavers by the square foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.05	Permeable Pavers	SF

Payment is full compensation for installing setting bed and permeable pavers within areas specified on plans.

**102. Blended Topsoil, Item SPV.0180.01.**

**A Description**

This special provision describes providing and placing Blended Topsoil including fertilizer and all work, materials, labor, equipment and supervision necessary to complete the work according to the plans.

**B Materials**

1. Clean salvaged or imported material capable of passing the 1" sieve and meeting the requirements of standard spec 625.2(1). The material shall be free of rocks, gravel, wood, debris, and of noxious weeds and their seeds. pH shall be 5 to 7.
2. Organic soil amendments acceptable as part of a backfill mix include:
  - a. Sand – Clean, sharp, well graded, coarse sand passing 1/4" mesh screen, free of dust, foreign and organic matter, with a pH of 5.5 to 6.5. Sand shall conform to ASTM C 33.
  - b. Sand for seed lawn only – Clean, sharp, well graded, fine sand passing No. 40 sieve and retained on No. 200 sieve, free of dust, foreign and organic matter, with a pH of 5.5 to 6.5. Sand shall conform to ASTM C 33.
  - c. Peat Moss - Type 1 sphagnum, weed and seed free, 3.1-5.0 pH
  - d. Sedge Peat - decomposed peat with no identifiable fibers
  - e. Leaf Compost - screened and free of trash and other debris
  - f. Compost - standard commercial grade compost of sheep or cow manure
  - g. Pine Bark - potting grade pine bark with no particles larger than 1/2" (1.3 cm), less than 10% wood fiber
  - h. Organic soil amendments shall be capable of passing the 1" sieve. The material shall be free of rocks, gravel, wood, debris, and of noxious weeds and their seeds.

3. Fertilizer

a. Commercially available fertilizer meeting the following N-P-K mix ratios shall be added to the topsoil mixes per testing laboratory recommendations. Fertilizers should avoid use of diammonium phosphate and potash.

- Fertilizers shall be mixed into top 3" of placed soil profile.

Fertilizers:	N	P	K	Rate/1000 sq ft.
Starter Fertilizer (Crystal Green)	5	27	0	3.6 lbs.
Starter Fertilizer (Signature)	10	18	22	5.5 lbs.

- Use commercially available fertilizer meeting the requirements of standard spec 629.2.1.1. Unless otherwise specified or shown on the Drawings, provide Type "A" fertilizer.
- All fertilizers shall be delivered fully labeled according to applicable regulations, bearing name, trade name or trademark of producer, along with producer's warranty. Application amounts of fertilizer and lime will be governed by the recommendations of the soil test.

4. Lime material shall meet the requirements of standard spec 629.2.2.

5. Amended Planting Soil for Planting Beds and White Clover Seeded Areas: Planting mixture composed of blended topsoil and approximately 17% compost, based on volume. Planting soil mixture shall be free of rocks, stumps, roots, brush or other material over 1 inch in diameter, have pH between 5.5 and 8.0, and adequate nutrient content to meet plant growth requirements. Compost shall meet requirements of the Wisconsin Department of Natural Resources Specification S100-Compost.

**C Construction**

Place soil mixture: All beds must be completely backfilled with planting mixture, raked, and prepared for planting. Provide, place, spread and rough grade soil mix for planting in all areas to be planted, to depths specified.

Place planting mixture in 6-inch lifts. Upon installation of the first planting medium lift, moisten the surface at a rate of two gallons of water per square foot. Allow water to thoroughly percolate through the soil before placing the next lift. Allow soil to settle and dry at which time compact with manual pull-behind 25 to 100 pound per linear foot sod roller with one pass over the entire planting soil surface. Compact to 90% under all root balls.

Check permeability of soil before adding second lift. Install second lift of planting soil, moisten, allow for settling and compact to 90% under all root balls. Place additional planting mixture in required lifts following the same procedures, as necessary. Place enough soil mix to meet finish grades within specified tolerances, including any additional rolls to grades as described on the plans. Allow for placement and mixing of leaf mulch but place enough soil mix to meet finish grades within specified tolerances.

Do not apply topsoil or planting soils to saturated or frozen subgrades.

Apply fertilizer according to standard spec 629.3.1.

**D Measurement**

The department will measure Blended Topsoil per 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	Blended Topsoil	SY

Payment is full compensation for all costs associated with furnishing and testing material from off-site sources, hauling to the fill location, and placing and compacting material in compliance with drawings and specifications.

**103. Crushed Stone No. 8, Item SPV.0195.01.**

**A Description**

This special provision describes furnishing and installing Crushed Stone No. 8.

**B Materials**

Furnish Crushed Stone No. 8 with gradation conforming to the following:

SIEVE	PERCENT PASSING (by weight)
1/2-inch	100
3/8-inch	85-100
No. 4	10-30
No. 8	0-10
No. 16	0-5

All stone material shall be washing with less than 2% passing the No. 200 sieve.

**C Construction**

Construct Crushed Stone No. 8 in conformance with standard spec 310.3.

**D Measurement**

The department will measure Crushed Stone No. 8 by the ton, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Crushed Stone No. 8	TON

Payment is full compensation for installing, compacting and fine grading of Crushed Stone No. 8.

**104. Sanitary Manhole 48-Inch, Item SPV.0200.01.**

**A Description**

This special provision describes furnishing and installing a standard 48-Inch diameter sanitary manhole.

**B Materials**

**B.1 General**

All materials and work required to install the manhole will conform to the SSSW.

**B.2 Manhole**

Manhole barrels shall be constructed of pre-cast reinforced concrete sections. Precast manholes and cones shall conform to ASTM Specifications, C478, latest revision.

**B.3 Joints**

Joints for precast manholes shall meet the requirements of ASTM C-443, latest revision, except that sealant shall be butyl rubber gasket or butyl rubber rope. Flexible butyl rubber gaskets or rope shall comply with the physical requirements for Type "B" gaskets in AASHTO Designation M-198, or Federal Specification SSS-00210-A, sealing compound, preformed plastic for expansion joints and pipe joints.

**B.4 Steps**

All manholes shall be provided with steps equally spaced vertically at a maximum of 16 inches on center installed by the manufacturer. Steps shall be embedded into the riser or conical top section of the wall a minimum of 3 inches. Manhole steps shall be made of gray cast iron conforming to the requirements of ASTM Designation A-48 Class No. 30B and shall have a minimum cross-sectional dimension of one inch in any direction. Each section of the manhole shall be aligned so the steps create a continuous ladder.

## **B.5 Backfill Slurry**

Backfill slurry shall meet the material and construction requirements of section 8.43.8 of the SSSW.

## **C Construction**

Perform the work according to the SSSW.

Construct manholes as shown in the plans. Fill the excavation with backfill slurry, to existing surface or to appropriate depth for pavement restoration.

Contractor shall deliver all removed existing frames and covers to the DPW yard after the work is completed. Contact the Joe Ingrelli, City of Wauwatosa DPW Operations Supervisor at (414) 831-0803 to coordinate delivery of manhole frames and covers.

### **C.1 Inverts**

Construct benches up to the crown or top of the outgoing pipe and slope as specified for a sanitary manhole according to File Numbers 11, 12, and 13 of the SSSW.

### **C.2 Surface Preparation**

Remove manhole cover and power wire brush the lower 3 inches of the manhole frame to remove any loose rust or scale and repair any imperfections by either grinding smooth or filling with mortar. A smooth, clean sealing surface is required. Realign the casting if it is offset more than approximately 2 inches from the chimney. Remove all loose and protruding mortar and brick from the upper 7-Inch chimney and clean surface by power wire brushing. Provide a 4-Inch wide sealing surface starting 2 inches down from the bottom of the frame.

All sealing surfaces must be circular, reasonably smooth, clean and free of any loose material or excessive voids. If such a surface does not exist for the bottom of the sleeve to seal against, use one-component, quick-set, high strength, non-shrink, polymer modified patching mortar which has been formulated for vertical or overhead use. If the bottom of the sleeve is to seal against the top of an eccentric (straight side) cone and an inadequately high vertical surface does not exist, contact the manufacturer to obtain details to build the required vertical surface.

Use caulk to fill minor irregularities in the bottom sealing surface. The caulk shall be a butyl rubber caulk conforming to AASHTO M-198, Type B. Apply a single bead of the caulk to the center portion of the lower sealing surface of the sleeve. Any flaws in the manhole frame, such as minor cracks, pits or protrusions, shall be repaired by either filling with mortar or grinding smooth.

## **D Measurement**

The department will measure Sanitary Manhole, 48-Inch Diameter by the vertical foot from lowest invert to top of frame of each structure, acceptably completed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.01	Sanitary Manhole 48-Inch	VF

Payment is full compensation for furnishing and installing all materials including pre-cast manhole base, riser, bench, cone section; for survey; for installing gaskets, joint seals, steps, bedding material, backfill material, for furnishing and placing backfill slurry, for furnishing all excavation, dewatering, sheathing and shoring, forming foundation, and masonry work; for making sanitary sewer connections; for making lateral connections: for backfilling including mechanical compaction and compaction testing; for removing sheeting and shoring; for disposal of all surplus or waste material; and for clean-up. The removal of existing sanitary sewer pipe and manholes from within the trench of replacement of sanitary sewer manholes will not be paid separately but shall be considered incidental to the item.

## **105. Sanitary Manhole 48-Inch Outside Drop/s, Item SPV.0200.02.**

### **A Description**

This special provision describes furnishing and installing a standard 48-Inch diameter sanitary manhole with outside drop or drops.



## **B Materials**

### **B.1 General**

All materials and work required to install the manhole will conform to the SSSW.

### **B.2 Manhole**

Manhole barrels shall be constructed of pre-cast reinforced concrete sections. Precast manholes and cones shall conform to ASTM Specifications, C478, latest revision.

### **B.3 Joints**

Joints for precast manholes shall meet the requirements of ASTM C-443, latest revision, except that sealant shall be butyl rubber gasket or butyl rubber rope. Flexible butyl rubber gaskets or rope shall comply with the physical requirements for Type "B" gaskets in AASHTO Designation M-198, or Federal Specification SSS-00210-A, sealing compound, preformed plastic for expansion joints and pipe joints.

### **B.4 Steps**

All manholes shall be provided with steps equally spaced vertically at a maximum of 16 inches on center installed by the manufacturer. Steps shall be embedded into the riser or conical top section of the wall a minimum of 3 inches. Manhole steps shall be made of gray cast iron conforming to the requirements of ASTM Designation A-48 Class No. 30B and shall have a minimum cross-sectional dimension of 1 inch in any direction. Each section of the manhole shall be aligned so the steps create a continuous ladder.

### **B.5 Outside Drop**

All manholes shall meet the material and construction requirements of section 3.5.8.d and Detail File No. 19 of the SSSW.

### **B.6 Backfill Slurry**

Backfill slurry shall meet the material and construction requirements of section 8.43.8 of the SSSW.

## **C Construction**

Perform the work according to the SSSW.

Construct manholes as shown in the plans. Place bedding material the full depth of the excavation under the pipe prior to laying the pipe when a sewer main or lateral enters a manhole any distance above the manhole invert. Any sewer main or lateral entering a manhole greater than 2 feet above the spring line of the outgoing sewer, the incoming sewer shall be connected to the manhole by means of an outside drop manhole (Type D). The drop pipe shall be the same diameter as the incoming sewer. Fill the excavation with backfill slurry, to existing surface or to appropriate depth for pavement restoration.

Contractor shall deliver all removed existing frames and covers to the DPW yard after the work is completed. Contact the Joe Ingrelli, City of Wauwatosa DPW Operations Supervisor at (414) 831-0803 to coordinate delivery of manhole frames and covers.

### **C.1 Inverts**

Construct benches up to the crown or top of the outgoing pipe and slope as specified for a sanitary manhole according to File Numbers 11, 12, and 13 of the SSSW.

### **C.2 Surface Preparation**

Remove manhole cover and power wire brush the lower 3 inches of the manhole frame to remove any loose rust or scale and repair any imperfections by either grinding smooth or filling with mortar. A smooth, clean sealing surface is required. Realign the casting if it is offset more than approximately 2 inches from the chimney. Remove all loose and protruding mortar and brick from the upper 7-Inch chimney and clean surface by power wire brushing. Provide a 4-Inch wide sealing surface starting 2 inches down from the bottom of the frame.

All sealing surfaces must be circular, reasonably smooth, clean and free of any loose material or excessive voids. If such a surface does not exist for the bottom of the sleeve to seal against, use one-component, quick-set, high strength, non-shrink, polymer modified patching mortar which has been formulated for vertical or overhead use. If the bottom of the sleeve is to seal against the top of an eccentric (straight side) cone and an inadequately high vertical surface does not exist, contact the manufacturer to obtain details to build the required vertical surface.

Use caulk to fill minor irregularities in the bottom sealing surface. The caulk shall be a butyl rubber caulk conforming to AASHTO M-198, Type B. Apply a single bead of the caulk to the center portion of the lower sealing surface of the sleeve.

Any flaws in the manhole frame, such as minor cracks, pits or protrusions, shall be repaired by either filling with mortar or grinding smooth.

**D Measurement**

The department will measure Sanitary Manhole, 48-Inch Outside Drop/s by the vertical foot from lowest invert to top of frame of each structure, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.02	Sanitary Manhole 48-Inch Outside Drop/s	VF

Payment is full compensation for furnishing and installing all materials including pre-cast manhole base, riser, bench, cone section, exterior drop pipe, frames, grates or lids, and chimney adjustment rings; for survey; for installing gaskets, joint seals, steps, bedding material, backfill material; for furnishing all excavation, dewatering, sheathing and shoring, forming foundation, and masonry work; for making sanitary sewer connections; for making lateral connections: for backfilling including mechanical compaction and compaction testing; for furnishing and placing backfill slurry; for removing sheeting and shoring; for disposal of all surplus or waste material; and for clean-up. The removal of existing sanitary sewer pipe and manholes from within the trench of replacement of sanitary sewer manholes will not be paid separately but shall be considered incidental to the item.

## **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   18   (*number*) TrANS Graduate(s) be utilized on this contract.
  
- 2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of \$5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).  
  
Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.  
  
Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that   7   (*number*) TrANS Apprentice(s) be utilized on this contract.
  
- 3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

- 4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.
- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

## II. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

*NOTE: Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

## III. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

## IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

## **V. APPRENTICESHIP TRAINING**

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups,

disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

## ADDITIONAL SPECIAL PROVISION 3

### DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

#### Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

#### Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

- (1) The Commitment to Subcontract to DBE (Form DT1506 or digital submittal), Attachments A, and Good Faith Effort Documentation (Form DT1202) will be submitted as described in Section 2.
- (2) Any change to DBE Commitments thereafter must follow modification of DBE subcontracting commitment as described in Section 9.
- (3) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid shopping is prohibited.
- (4) The contractor must utilize the specific DBE firms listed in the approved DBE Commitment to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent in advance from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DBE Commitment that is not performed or supplied by the listed DBE without WisDOT's written consent.

#### Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's *Standard Specifications for Highway and Structure Construction* and *Construction and Materials Manual*. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

- (1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

- (2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
- Produce accurate and complete quotes
  - Understand highway plans applicable to their work
  - Understand specifications and contract requirements applicable to their work
  - Understand contracting reporting requirements
- (3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: <http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

## 1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.
- b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.
- c. **DBE:** Disadvantaged Business Enterprise – A for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.
- d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal. The prime contractor will have the option to submit the DT1506 digitally, as an entry with the bid in Bid Express, or as an attachment to the bid.
- e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of the DBE Commitment, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved DBE Commitment, and those submitted after approved commitment with Attachment A.
- f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.
- g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
- h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.
- i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
- j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

## 2. WisDOT DBE Program Compliance

### a. Documentation Submittal

- The Commitment to Subcontract to DBE (Form DT1506 or digital submittal) must be submitted at the time of bid (Tuesday) by all prime contractors.
- Attachments A OR quotes from all DBEs included in the Commitment must be submitted at bid (Tuesday) **OR**
- Within one-hour following bid submittal by ALL prime contractors via eSubmit (Tuesday).
- If only DBE quotes were submitted, all remaining signed Attachments A must be submitted within 24-hours of bid closing via eSubmit (Wednesday).
- If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) and supporting documentation must be submitted within 24-hours of bid closing (Wednesday) via eSubmit. [Instructions for eSubmit.](#)

\*\*Bidders have the option of submitting the DBE Commitment at the time of bid via direct entry through Bid Express OR with attachment of Form DT1506 (Commitment to Subcontract to DBE). The DBE Commitment entered with bid is the digital form of the DT1506. Separate submission of Form DT1506 is not required if the DBE Commitment is entered in Bid Express. Form DT1202, if applicable, is no longer required to be submitted at time of bid; submit DT1202 within the 24-hour supplemental time frame following bid closing.

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the DBE Commitment (digitally entered into the bid OR Form DT1506 as an attachment), Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

### b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

#### (1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate the DBE Commitment submitted with bid OR Form DT1506, and Attachments A to verify the actual DBE percentage calculation. If the DBE Commitment is verified, the contract is eligible for award with respect to the DBE Commitment.

#### (2) DBE Goal Not Met

- a) If the bidder indicates a bid percentage on the DBE Commitment that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through submission of Form DT1202 (Documentation of Good Faith Effort) within 24-hours of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE Commitment and evaluate the bidder's good faith efforts submission.
- b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:
  1. *Approve* the request (adequate documentation of GFE has been submitted) - no conditions placed on the contract with respect to the DBE Commitment;
  2. *Deny* the request (inadequate documentation of GFE has been submitted) - the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.



- c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted through eSubmit.

### 3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract.

The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

- (1) Documents that it has obtained enough DBE participation to meet the goal; OR
- (2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

*Appendix A* of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The Department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The Department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

#### a. Solicitation Guidance for Prime Contractors:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.
- (2) As needed, request assistance with DBE outreach and follow-up by contacting the Department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)
- (3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.
- (4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, detailed list of items for which they are accepting quotes, by project, within a letting. See *attached sample entitled "Sample Contractor Solicitation Letter"* in Appendix B. Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE firms to do work in a prime contractor's area of specialization.

- i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)
- ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C): <https://www.bidx.com/wi/main>, postal mail, email, fax, and phone.
  - a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter*, Appendix B. This letter may be included as an attachment to the sub-quote request.
  - b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
  - c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.
- iii. Upon request, provide interested DBE firms with adequate information about plans, specifications, and the requirements of the contract by letter, information session, email, phone call, and/or referral.
- iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.
- v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
  - a. Email to all prospective DBE firms in relevant work areas
  - b. Phone call log to DBE firms who express interest via written response or call
  - c. Fax/letter confirmation
  - d. Signed copy of record of subcontractor outreach effort

## b. Guidance for Evaluating DBE quotes

- (1) Quote evaluation practices required to evaluate DBE quotes:
  - i. Reasonable Price: Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).
- (2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:
  - i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, **a discussion** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
    - a. In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
    - b. Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:

- i Compare bid items common to both quotes, noting the reasonableness in the price comparison.
- ii Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices*.

**c. Requesting Good Faith Effort Evaluation** At the time of bid- if the DBE goal is not met in full, the prime contractor must indicate they will file form DT1202- Documentation of Good Faith Effort within 24-hours of bid submission. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:

- (1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.
- (2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.
- (3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.
- (4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.
- (5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.
- (6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials
- (7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The Department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved DBE Commitment. No contractor, prime or subsequent tier, shall be paid for completing work assigned to a DBE subcontractor on an approved DBE Commitment unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE Commitment, **they will not be paid for the work**. Any changes to DBE Commitment after the approval of the DBE Commitment must be reviewed and approved by the DBE Office prior to the change (see Section 9).

Additional resources for demonstrating and tracking good faith effort can be found on the “Contracting with a DBE” webpage in the [ASP-3 and Good Faith Effort Guidance](#) section.

#### 4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the Department's decision to deny the bidder's demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the Department's denial notice. The bidder may meet in person with the Department if so requested. Failure to appeal within 5 business days after receiving the Department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The Department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The Department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the Department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The Department's decision is final.

#### 5. Determining DBE Eligibility

##### Directory of DBE firms

- a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: <http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.
- c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

#### 6. Counting DBE Participation

##### Assessing DBE Work

The Department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the UCP agencies. The Department only counts the value of the work a DBE actually performs towards the DBE goal. The Department assesses the DBE work as follows:

- a. The Department counts work performed by the DBE firm's own resources. The Department includes the cost of materials and supplies the DBE firm obtains for the work. The Department also includes the cost of equipment the DBE firm leases for the work. The Department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.
- b. The Department counts fees and commissions the DBE subcontractor charges for providing bona fide professional, technical, consultant, or managerial services. The Department also counts fees and commissions the DBE charges for providing bonds or insurance. The Department will only count costs the program engineer deems reasonable based on experience or prevailing market rates.
- c. If a DBE firm subcontracts work, the Department counts the value of the work subcontracted to a DBE subcontractor.
- d. The contractor will maintain records and may be required to furnish periodic reports documenting its performance under this item.
- e. It is the Prime Contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.

- f. It is the Prime Contractor's responsibility to assess the DBE firm's ability to perform the work for which it is committing/contracting the DBE to do. Note that the Department encourages the Prime Contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.
- g. The Prime Contractor will inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.
- h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, Attachment A" Email: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)

\*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

## 7. Credit Evaluation for Trucking

All bidders are expected to adhere to the Department's current trucking policy posted on the HCCI website at: <http://wisconsin.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: <https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf>

See Section 8 for Broker credit.

## 8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The Department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The Department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer, supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506 or DBE Commitment submitted with the bid.

### a. Manufacturers

- (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

### b. Regular Dealers of Material and/or Supplies

- (1) 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.
- (4) When DBE suppliers are contracted, additional documentation must accompany the DBE Commitment and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.
  - i. The bidder should respond to the following questions and include with submission of form DT1506 or the DBE Commitment entered with bid:
    - a. What is the product or material?
    - b. Is this item in the prime's inventory or was the item purchased when contract was awarded?
    - c. Which contract line items were referenced to develop this quote?
    - d. What is the amount of material or product used on the project?
- (5) Supplies purchased in **bulk** from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.
  - i. To ensure that the appropriate credit is assigned, follow the procedure below:
    - a. When DBE suppliers are contracted for bulk supply or commodity purchases, an invoice or bill-of-sale that includes names of the contractor and the DBE supplier should be submitted to the DBE Office via eSubmit (preferred during letting) or the DBE\_Alert email box. The supply/commodity credit may be applied during the federal fiscal year (October- September) in which the purchase was made.
    - b. When the contractor intends to apply the credit to a particular project, submit a copy of the original invoice, documentation of the calculations for supplies/commodities to be used on the project, and an Attachment A. Indicate on the Attachment A:
      - c. This supply/commodity is in the prime's inventory or pre-paid in case of commodities
      - d. The full value of the original invoice submitted to the DBE Office, above in (1)
      - e. The amount of material or product used on this project
      - f. Fuel estimate listed on Attachment A will be recorded as a deduction from the full fuel purchase amount shown on the invoice
  - ii. DBE Office Process (Applies only to bulk purchases)
    - a. Supply/Commodity commitment is received
    - b. Engineer verifies amount listed on invoice and enters the full amount into spreadsheet
    - c. The amount of credit applied for each project is updated on the spreadsheet until the bulk purchase is exhausted
    - d. Engineer informs contractor when full amount of bulk purchase has been applied

**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 are calculated as **10%** of the purchase amount.
- (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials or supplies required on a job site.
- (4) Evaluation of DBE credit includes review of the contract need for the item/service, the sub-contract or invoice for the item/service, and a comparison of the fees customarily allowed for similar services to determine whether they are reasonable.

**9. DBE Commitment Modification Policy (Formerly "DBE Replacement Policy")**

**a. Issuing a Contract Change Order**

Any changes or modifications to the contract once executed are considered contract modifications and as such require a change order. In addition, the DBE office must provide consent for reduction, termination, or replacement of subcontractors approved on the DBE Commitment *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE Commitment do not require advance notification of the DBE office. (see below e. DBE Utilization beyond the approved DBE Commitment)

**b. Contractor Considerations**

- (1) A prime contractor cannot modify the DBE Commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved DBE Commitment without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.
- (2) If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the Department regarding the DBE utilization.
- (3) The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal. When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.
- (4) In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.
- (5) The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they will advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.
  - i. Before the Prime Contractor can request modification to the approved DBE Commitment, the Prime Contractor must:
    - a. Make every effort to fulfill the DBE Commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.

- b. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the Commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.
- c. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.
- d. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. EXCEPTION: The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.
- e. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

**c. Request to Modify DBE Subcontracting Commitment**

The written request referenced above may be delivered by email or fax. The request must contain the following:

- (1) Project ID number
- (2) WisDOT Contract Project Engineer's name and contact information
- (3) DBE subcontractor name and work type and/or NAICS code
- (4) Contract's progress schedule
- (5) Reason(s) for requesting that the DBE subcontractor be replaced or terminated
- (6) Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov) + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

*Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}*

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor
- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required



- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract.

#### d. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE Commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved DBE Commitment is the DBE Program Engineer who can be reached at [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov) or (414) 335-0413.

#### e. DBE Utilization beyond the approved DBE Commitment

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 or DBE Commitment submitted with bid at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

- (1) Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DBE Commitment based on the email/discussion and the new Attachment A.
- (2) When adding to an existing DBE Commitment, submit a new Attachment A to the DBE Alert mailbox
- (3) OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, New Attachment A" Email: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)

#### Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. \$1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting
- DBE truckers need to be added to the DBE commitment once. If the DBE trucker is on the initial commitment (DT1506/E1506) there is no requirement to submit another Attachment A for that trucker for that contract.

### 10. Commercially Useful Function

- a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.
- b. The Department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.

- c. A DBE firm is performing a commercially useful function if the following conditions are met:
  - (1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.
  - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.
- d. Offsite Hauling – when DBE truck will haul between a pit and plant or location other than the construction site associated with the commitment
  - (1) Indicate Offsite Hauling on Attachment A
  - (2) Discuss offsite hauling at weekly progress meetings with Project Engineer (PE)
  - (3) PE conducts spot checks of pits/plants to verify DBE truck is hauling and/or verifying hauling log
  - (4) Prime should be prepared to submit haul tickets, plant/pit tickets, timecards, and other pertinent documentation if requested by PE or DBE Office

### 11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the Department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The Department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

### 12. Joint Venture

A joint venture is an association of a DBE firm and one or more other firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills and knowledge, and in which the DBE is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest. If a DBE performs as a participant in a joint venture, the Department will only credit the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces.

### 13. Mentor-Protégé

- a. If a DBE performs as a participant in a mentor-protégé agreement, the Department will credit the portion of the work performed by the DBE protégé firm.
- b. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.
  - (1) DBE credit may only be awarded to a non-DBE mentor firm for using its own protégé firm for less than one half of its goal on any contract; and
  - (2) Not award DBE credit to a non-DBE mentor firm for using its own protégé firm for more than every other contract performed by the protégé firm.
- c. A DBE protégé firm may be eligible for conditional NAICS code extension for training with the mentor. Request permission from the DBE Office- Certification area.
- d. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

## 14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
  - (1) Request should be made when the DBE Commitment or the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
  - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
  - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
  - (4) The joint check for supplies must be strictly for the cost of approved supplies.
- b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an 'extra participant' in the transaction. The DBE firm's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following:
  - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.
  - (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the [Application to Use Joint Checks](#) after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor.
  - (1) The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.
  - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor's negotiated unit price.

## 15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

## Appendix A

### Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released weeks prior to each Let)

1. Determine DBE subcontractor's interest in quoting
2. If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
3. Assess their interest and experience in the road construction industry by asking questions such as:
  - Have you competed for other WisDOT contracts? Ratio of competed/to wins
  - Have you performed on any transportation industry contracts (locally or with other states)?
  - What the largest contract you've completed?
  - Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
  - Does this project fit into your schedule? Are you working on any contracts now?
  - Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
  - What region do you work in? Home base?
  - Which line items are you considering?
  - Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
  - Do you understand where your work fits in the project schedule, project phases?

Following Bid Opening- this discussion can happen at any time

1. After reviewing their quote, note the following in your discussion:
  - Does the quote look complete? Irregular?
  - Are there errors in the quote? Are items very high or very low?
  - In general, does the quote look competitive?
2. Questions and Advice for the bidder to share with the potential DBE subcontractor:
  - What line items would typically be in a competitive quote for a subcontractor of their specialty?
  - How many employees and what is their role/experience/expertise in your firm?
  - Do you have resources for labor (union member, family-based, community-resourced) and capital (banking relationship, bond agent, CPA)?
  - Where have you worked: cities, states, government, commercial, residential/private sector, etc. Explain similarities or differences.
  - Refer them to reliable, trusted, industry resources that can educate or connect them to relevant resources, education/certification resources, more appropriate contract opportunities.
  - Discussion about prime contract and subcontract liability, critical path items, contract quantities, schedule risks, and potential profit/loss (for upcoming known projects or in general).
  - Discussion of bonding, insurance, and overall business risk considerations.

## Appendix B

### Sample Contractor Solicitation Letter Page 1

*(This sample is provided as a guide, not a formatting requirement)*

#### DBE Solicitation - [Month] [Day], [Year] WisDOT Bid Letting

Attention all DBEs. [Prime Contractor] is actively seeking your quote for the [Month][Day], [Year] Bid Letting. [Prime Contractor] is considering bidding on the projects listed on page 2 as a prime contractor. Please see page 2 for instructions and the sub-contractable opportunities for each proposal.

**Does [Prime Contractor] accept quotes in areas we might self-perform?** Yes, we do! We support this federal rule and (if needed) we consider areas we might self-perform an opportunity to provide in the field assistance and training if we award your quote.

**Where can DBEs find the plans, specifications & addenda?** Please visit [Prime Contractor's] plan room [LINK] or on WisDOT's Highway Construction Contract Information HCCI website: [Wisconsin Department of Transportation Highway Construction Contract Information \(wisconsindot.gov\)](https://www.wisconsin.gov/transportation/highway-construction-contract-information). This same website can be checked for the contract status.

**What should your quote include?** All the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should also note items that you are DBE certified to perform, tied items, and any special terms. Please use page 2 as your cover sheet for your quote.

**Do you have a question regarding bonding, credit, insurance, equipment, or supplies/materials?** We welcome all DBE questions! Please call [Prime Contractor] and ask to speak with [Contact]. [Prime Contractor] can provide basic information as well as a referral to a trusted industry partner for insurance and bonding needs.

#### **When are quotes due?**

**[Month] [Day], [Year] at [Time].** We accept quotes via SBN, email, or fax. Please make every effort to have your quotes in by this time or earlier. Quality check your quote so it includes the correct letting date, project ID, proposal number, unit price and extension.

**Who can DBEs contact for questions, information, clarification or for a quote evaluation?** [Project Manager Name] [Phone] [Email]. If you are quoting [Prime Contractor] for the first time, we encourage you to come meet with us in person to discuss the project. Our office hours are 7:30 a.m. – 5:00 p.m. On bid day, we are in the office by 6:30 a.m.

#### **Why partner with [Prime Contractor]?**

DBE partnership is a core part of [Prime Contractor's] mission. Including DBEs at the beginning of each project is essential in the success of each project. We consider DBEs to be important industry partners who bring dedication and knowledge at various stages during construction. We are proud to be an industry leader with our DBE partnership. Your success as a DBE is our success.

**Sample Contractor Solicitation Letter Page 2**  
*(This sample is provided as a guide, not a formatting requirement)*  
 REQUEST FOR QUOTE

**[Prime Contractor]**  
**Letting Date: [Month] [Day], [Year]**  
**Project IDs: 1234-56-00 (Proposal #1) & 1234-01-78 (Proposal #6)**

Please check all that apply:

- Yes, we will be quoting the projects & 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 Contact: \_\_\_\_\_ DBE: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Please circle the proposals and items you will be quoting below and contact us with any questions**

Proposal County	1 Dane County	6 Crawford County
Clearing & Grubbing	X	X
Dump Truck Hauling	X	X
Curb/Gutter/Sidewalk	X	
Erosion Control Items		X
Excavation	X	X
Pavement Marking		X
Traffic Control	X	
Sawing	X	X
QMP, Base		X
Pipe Underdrain	X	
Landscape		X
Beam Guard	X	
Electrical	X	
Signs/Posts/Markers		X
Survey/Staking		X

Again, please make every effort to have your quotes into our office by time deadline prior to the letting date.

**Sample Contractor Solicitation Email - Simplified**  
*(This sample is provided as a guide, not a formatting requirement)*

**ATTENTION DBEs**

- **[Prime Contractor] specializes in municipal projects in the XX Region(s)**
- **We have successfully competed for and completed XX WisDOT projects over the past XX years**
- **Consider [Prime Contractor] your partner on WisDOT Projects**

**[Prime Contractor] is seeking your subcontractor quote for the XX/XX/20XX WisDOT bid letting on the below projects:**

Project	Proposal	County	Region
1234-56-00	2	Dane	SW
1234-01-78	6	Crawford	SW

- Please review the attachments **[attach Solicitation Letter]** and respond with your intent to quote (or not) along with the work items you are interested in performing and respond via fax or email by **date**. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Please include labor, equipment, material, and related bonding or insurance.
- If you have any questions regarding bonding, credit, insurance, equipment and/or materials/supplies, please feel free to call [Prime Contractor] and ask for [Contact]. **(Include if your company is willing to answer these types of DBE questions)**
- Plans and Specifications can be found: **WisDOT HCCI Website: List webpage where plans are located**
- If you do choose to quote, please make every effort to have your quote into our office by **time and date**. Make sure the correct letting date, project number, unit price and extension are included in your quote.
- Should you have questions regarding the mentioned project, please call our office at (414) 555-5555 and we will direct you to the correct estimator/project manager.  
Our office hours are 7:30 a.m. - 5:00 p.m.

**Thank you – we look forward to working with your company on this project!**

**Prime Contractor**  
**Project Manager**  
 Direct: 414-555-5555  
 Cell: 414-555-5556

## Sample Contractor Solicitation Email to **non-DBE** WisDOT Subcontractors - Simplified

*(This sample is provided as a guide, not a formatting requirement)*

**ATTENTION WisDOT SUBCONTRACTORS**

**[Prime Contractor]** is considering bidding on the below projects for the **XX/XX/20XX WisDOT Bid Letting**:

Project	Proposal	County	Region	DBE Goal
1234-56-00	2	Dodge	SW	6.00%
1234-01-78	11	Adams	NC	3.00%
1234-00-99	20	Buffalo	NW	5.00%
1234-00-98	33	Portage	NC	6.00%

The above projects have DBE goals and [Prime Contractor] is committed to DBE inclusion with every project. As such, we are requesting:

- All WisDOT Subcontractors to **solicit and utilize** DBEs in your quotes.
- DBE participation can be achieved through purchasing materials from DBE suppliers, using DBE subcontractors and/or DBE trucking firms or any combination of these.
- If there is an opportunity to untie an item in your quote so a DBE can be utilized, please look for those opportunities as well.
- Your quote will be evaluated based on the amount of DBE participation your company is able to provide when compared to other quotes for the same work.

If you do choose to quote, please make every effort to have your quote into our office by **time and date**. Please submit all quotes to [Email]. Make sure the correct letting date, project number, unit price and extension are included in your quote.

Should you have questions regarding the mentioned project, the Project Manager contact is: [Name] [Phone Number] [Email]

**Thank you for utilizing DBEs who are trusted industry partners with WisDOT projects.**

**Prime Contractor**  
**Project Manager**

Direct: 414-555-5555  
Cell: 414-555-5556



## Appendix C

### Small Business Network (SBN) Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
  - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for later completion.
2. Create sub-quotes for the subcontracting community:
  - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
  - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
  - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE preferred request.
  - d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
  - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
  - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
  - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a "Good Faith" effort in reaching out to the DBE community.
  - b. Easily locate pre-qualified and certified small and disadvantaged businesses.
  - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
  - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. The DBE will provide free SBN accounts to DBEs when requested. Use [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov) to request an account. **DBE firms can:**

1. View and reply to sub-quote requests from primes:
  - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
  - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
  - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes. c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
  - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
  - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
  - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
  - c. Add attachments to a sub-quote.
  - d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
  - a. Receive a confirmation that your sub-quote was opened by a prime.
  - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
  - c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
  - a. If you are a contractor not yet subscribing to the Bid Express service, go to [www.bidx.com](http://www.bidx.com) and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.

## Appendix D

### Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications, and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TrANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

## GFE Evaluation Rubric – Phase 1 – Initial Review

DT1202	Examples	Rating	OBOEC Feedback
<b>Solicitation Documentation</b>	<p>Identify all reasonable and available activities performed to solicit the interest of all certified DBEs who have capacity and ability to perform work on the project.</p> <p><i>Such as: Updated solicitation letter and email, timely solicitation, and follow-up, and/or utilized various methods to communicate solicitation (ex: letter, email, publication, posting and/or website)</i></p>		
<b>Selected Work Items Documentation</b>	<p>All work items are broken out into economically feasible units to facilitate DBE participation.</p> <p><i>Such as: Selected work items are <u>specific</u> to each proposal and clearly identified in all solicitation(s)</i></p>		
<b>Documentation of Project Information provided to Interested DBEs</b>	<p>Provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.</p> <p><i>Such as: Project information is clearly identified in all solicitation(s)</i></p>		
<b>Documentation of Negotiation with Interested DBEs</b>	<p>Provide sufficient evidence demonstrating that good faith negotiations took place during the bid letting.</p> <p><i>Such as: Documented attempts with DBEs or on behalf of DBEs to increase DBE participation</i></p>		
<b>Documentation of Sound Reason for Rejecting DBEs</b>	<p>Provide sufficient evidence demonstrating that DBEs are rejected for sound reasons.</p> <p><i>Such as: Detailed and thoughtful analysis that considers both the percentage and dollar difference when rejecting a DBE including past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, and other tangible factors.</i></p>		
<b>Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials</b>	<p>Documented assistance in both solicitation(s) and outreach to DBEs.</p>		
<b>Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support</b>	<p>Effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well participation in activities that support DBE business development.</p> <p><i>Such as: Variety of activities that translate into meaningful DBE participation</i></p>		
<b>Documentation of other GFE activities</b>	<p><i>Such as: Used DT1202 Excel Workbook, Diversity &amp; Inclusion company policy, Mentor-Protégé participant, awarded neutral DBE after bid submission, included company GFE overview/strategy information and/or company website highlights DBE opportunities and participation</i></p>		
<b>Overall Demonstration of GFE</b>			

**GFE EVALUATION RATING LEGEND – PHASE 1 – Initial Review**

Documentation provided by bidder is evaluated and rated on the rubric. Bidders should include activities characterized by the following types of effort:

**ACTIVE & AGGRESSIVE:** Demonstrated through engaged and assertive activity

**QUALITY:** Demonstrated through essential character of conscientious and serious activity

**QUANTITY:** Demonstrated through a measurable number of activities

**SCOPE & INTENSITY:** Demonstrated through a rigorous approach to an appropriate and purposeful range of activities

**TIMING:** Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process

**GFE EVALUATION – PHASE 2 – Team Review****GFE Team completes:**

- Review of activities included on the rubric
- Review of the intent to award and sound reasoning submitted by Prime
- Bid analysis to confirm if any bid submitted met the DBE goal
- Review average of other bidders DBE goal achievement
- Team review of combined efforts documented in Phase 1 and 2 constitute final GFE determination

**Rating Scale:**

- **GFE Approval:**  
**Bona Fide = 6 or more categories color coded green.**  
Genuine effort characterized by sincere and earnest activities – “Solicitation” and “Sound Reasoning” must be green
- **GFE Approval:**  
**Sufficient = 5 or more categories color coded green or yellow**  
Adequate effort documented with a variety of quality activities – “Solicitation” and “Sound Reasoning” must be green or yellow
- **GFE Denial:**  
**Pro Forma efforts = 4 or less categories color coded green or yellow.** Perfunctory effort characterized by routine or superficial activities

**Green = Exceeds expectations**

**Yellow = Meets expectations**

**Red = Areas in need of attention and/or absence of documentation**

**See OBOEC Rubric Analysis Feedback**

Excerpt from Appendix A to 49 CFR Part 26:

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)(vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed

<b>GFE RUBRIC ANALYSIS</b>	
OBOEC DECISION	APPROVAL OR DENIAL
Prime Contractor	
Proposal	
Project	
Bid Letting	
DBE Goal Amount	
DBE Goal Amount Achieved	
<b>Bid Analysis</b>	
Goal %	Achieved %
Apparent Low Bidder	%
Bidder B	
Bidder C	
<b>Average of OTHER Bidders (Not including Apparent Low Bidder)</b>	
<b>DBE Quotes Received</b>	
<b>DBE Quotes Awarded</b>	
<b>DBE Quote(s) Rejected</b>	<b>Rejected Quote Analysis</b>
<b>DBE Quote(s) Awarded</b>	<b>Awarded DBE Amount</b>

## Appendix E

### Good Faith Effort Best Practices

This list is not a set of requirements; it is a list of potential strategies

#### Primes

- Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance.
- Participate in speed networking and mosaic exercises as arranged by DBE office.
- Host information sessions not directly associated with a bid letting.
- Participate in a formal mentor protégé or joint venture with a DBE firm.
- Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Facilitate a small group DBE ‘training session’ clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications, and communication methods.
- Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Quality of communication, not quantity creates the best results. Contractors should be thorough in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

#### DBE

- DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list and bid tabs at a minimum.
- 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.
- Participate in DBE office assessment programs.
- Participate on advisory and mega-project committees.
- Sign up to receive the DBE Contracting Update.
- Consider membership in relevant industry or contractor organizations.
- Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the Department are the only ways to get work.

## **Appendix F**

### **Good Faith Effort Evaluation Guidance**

#### *Appendix A of 49 CFR Part 26*

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, Part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, you have the responsibility to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made, based on the regulations and the guidance in this Appendix.

The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call. Determinations should not be made using quantitative formulas.

III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. (1) Conducting market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

(2) The bidder should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder should determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.



B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract.

D. (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

(2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

E. (1) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

(2) A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.

G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)(vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

VI. A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

[79 FR 59600, Oct. 2, 2014]

## **Appendix G**

### **(SAMPLE) Forms DT1506 and DT1202**

Official Form DT1506 can be found here: <https://wisconsindot.gov/Documents/formdocs/dt1506.pdf>

**COMMITMENT TO SUBCONTRACT TO DBE**

**Clear**

Wisconsin Department of Transportation

DT1506 12/2021 s.84.06(2) Wis. Stats.

Non-Traditional Project

Project ID: \_\_\_\_\_

Proposal # \_\_\_\_\_

Prime Contractor: \_\_\_\_\_

County: \_\_\_\_\_

Letting Date: \_\_\_\_\_

Total \$ Value of \_\_\_\_\_

Prime Contract: \$ \_\_\_\_\_

DBE Contract Goal: \_\_\_\_\_ %

DBE Goal Achieved: 0.00 %

This contract requires that a specified percentage of the work be subcontracted to a disadvantaged business enterprise and that this information be submitted as described in ASP-3. The submittal of this form with the bid proposal constitutes your DBE commitment. Include Attachment A for DBEs included on commitment.

**This form must be completed and returned for this proposal. See page 2 for instructions.**

1. DBE Firm	2. Work or Items to be subcontracted	3. Supplier Y/N	4. Trucking Only	5. DBE Full Subcontract \$	6. DBE Amount for Credit \$
			O# L#		
			O# L#		
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				\$ 0.00	\$ 0.00

Government Use Only Approved Amounts	
A =	\$ _____ %
V =	\$ _____ %
Total =	\$ _____ %
Signature: _____	
Date: _____	
Good faith effort approved: Yes <input type="checkbox"/> No <input type="checkbox"/>	

\_\_\_\_\_  
Prime Representative Signature & Date

\_\_\_\_\_  
DBE Office Signature & Date Approved

**COMMITMENT TO SUBCONTRACT TO DBE  
ATTACHMENT A**

**CONFIRMATION OF PARTICIPATION**

Project I.D.:	Proposal Number:
Letting Date:	

Name of DBE Firm Participating in this Contract:	
Name of the Prime/Subcontractor who hired the DBE Firm: <i>(list all names of tiers if more than one)</i>	
Type of Work or Type of Material Supplied:	
Total Subcontract Value:	Total DBE Credit Value:

<b>FOR PRIME CONTRACTORS ONLY:</b> I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.	Prime Contractor Representative's Signature
	Prime Contractor Representative's Name (Print Name)
	Prime Contractor (Print Company Name)
	Date

<b>FOR PARTICIPATING DBE FIRMS ONLY:</b> I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above.  <b>FOR DBE TRUCKING FIRMS ONLY:</b> I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks as listed below.	Participating DBE Firm Representative's Signature	Date
	Participating DBE Firm Representative's Name (Print Name)	
	Participating DBE Firm (Print Company Name)	
	DBE Firm's Address:	

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

Off site Hauling



**DOCUMENTATION OF GOOD FAITH EFFORT**  
 Wisconsin Department of Transportation  
 DT1202.....3/2020



Project ID *****	Proposal No. *****	Letting *****
Prime Contractor *****	County *****	
Person Submitting Document *****	Telephone Number *****	
Address *****	Email Address *****	

All bidders must undertake necessary and reasonable steps to achieve the assigned DBE contract goal per federal regulatory guidance at 49 CFR Part 26. Bidders use this form to document all efforts employed to meet the assigned goal as a record of contractor good faith efforts (GFE). Refer to ASP3 or 49 CFR Part 26 for guidance on actions that demonstrate good faith effort.

It is critical to list all efforts, attach documentation, and follow the instructions to complete this submission. Documentation of good faith effort includes copies of each DBE and non-DBE subcontractor quote submitted to the bidder for the same line items. Utilize the sample documentation logs to document and organize efforts.

Submit good faith effort documentation per ASP-3 guidelines.

**Instructions:** Provide a narrative description of all activities pursued to demonstrate good faith efforts, any corresponding documentation, and applicable explanation on separate pages. Include the following items, organized in the order listed below.

**1. Solicitation Documentation:**

- a. **Purpose:** To identify all reasonable and available activities the bidder performed to solicit the interest of all certified DBEs who have the capacity and ability to perform work on the project. All solicitation efforts should begin as early as possible to ensure DBEs have ample time to respond and ask questions.
- b. **Action:** Identify and list all activities engaged in to solicit DBEs using all reasonable and available means such as written notice and follow-up communications; substantive conversations; pre-bid meetings; networking events; market research; advertising.

**2. Selected Work Items Documentation:**

- a. **Purpose:** To ensure that all work items are broken out into economically feasible units to facilitate DBE participation. This must occur even when you prefer to perform the work yourself.
- b. **Action:** Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

**3. Documentation of Project Information provided to Interested DBEs:**

- a. **Purpose:** To provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.
- b. **Action:** Provide DBEs access to plans, specifications, and other contract requirements. Early solicitation allows ample opportunity to provide project information, links to Let advertisements, and substantive engagement with DBEs.

**4. → Documentation of Negotiation with Interested DBEs:**

**a. → Purpose:** To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

**b. → Action:** Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

**5. → Documentation of Sound Reason for Rejecting DBEs:**

**a. → Purpose:** To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

**b. → Action:** Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

**6. → Documentation of Assistance to Interested DBEs - Bonding, Credit, Insurance, Equipment, Supplies/Materials:**

**a. → Purpose:** To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

**b. → Action:** Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

**7. → Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:**

**a. → Purpose:** To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

**b. → Action:** Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:  
Wisconsin Department of Transportation  
DBE Program Office  
PO Box 7965  
Madison, WI 53707-7965  
DBE\_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

		(Bidder/Authorized Representative Signature)
		_____
		(Print Name)
		_____
		(Title)



### Good-Faith-Effort--Sample-Documentation-Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

#### SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May-Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote.

#### SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email; left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

#### INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

#### NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

#### ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

#### OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: <https://wisconsindot.gov/pages/global-footer/formdocs/default.aspx>

## **ADDITIONAL SPECIAL PROVISION 4**

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

### **Payment to First-Tier Subcontractors**

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor is not allowed to withhold retainage from payments due subcontractors.

### **Payment to Lower-Tier Subcontractors**

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

### **Acceptance and Final Payment**

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.

## ADDITIONAL SPECIAL PROVISIONS 5 FUEL COST ADJUSTMENT

### A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

### B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

**C Fuel Index**

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is \$3.90 per gallon.

**D Computing the Fuel Cost Adjustment**

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

- (1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.
- (2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.
- (3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.
- (4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left( \frac{CFI}{BFI} - 1 \right) \times Q \times BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

**E Payment**

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

**Additional Special Provision 6**  
**ASP 6 - Modifications to the standard specifications**

*Make the following revisions to the standard specifications:*

**416.2.4 Concrete Pavement Repair and Replacement**

*Replace the entire text with the following effective with the November 2022 letting:*

- (1) Except as specified in 416.3.6 for inlaid rumble strips, use grade C concrete as specified in 501.
- (2) The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi.

**416.2.5 Special High Early Strength Concrete Pavement Repair and Replacement**

**416.2.5.1 Composition and Proportioning of Concrete**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) For the concrete mixture, use a minimum of 846 pounds of cementitious material per cubic yard of concrete. The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi. The contractor may add one or a combination of admixtures to the ingredients or to the mixture in order to obtain the required minimum strength and required air content. Do not retemper the concrete mixture.

**455.2.4.3 Emulsified Asphalts**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) Furnish material conforming, before dilution, to the following:
    - Anionic emulsified asphalts<sup>[1]</sup>..... AASHTO M140
    - Cationic emulsified asphalts<sup>[1]</sup> ..... AASHTO M208
    - Polymer-modified cationic emulsified asphalts ..... AASHTO M316
- <sup>[1]</sup> Non-tracking emulsified asphalts shall conform to TABLE 455-1 for the type and grade specified.

**TABLE 455-1 Requirements for Non-Tracking Emulsified Asphalt**

PRODUCT	ANTT	CNTT
Saybolt Viscosity at 77°F (25°C), (AASHTO T 59), SFS	15-100	15-100
Paddle Viscosity at 77°F (25°C), (AASHTO T 382), cPs <sup>[1]</sup>	30-200	30-200
Storage Stability Test, 24 hr, (AASHTO T 59), %	1 max	1 max
Residue by Distillation, 500 ± 10 °F (260 ± 5 °C), or Residue by Evaporation, 325 ± 5 °F (163 ± 3 °C), (AASHTO T 59), %	50 min	50 min
Sieve Test, No. 20 (850 µm), (AASHTO T 59), %	0.3	0.3
Penetration at 77°F (25°C), 100 g, 5 sec, (AASHTO T 49), dmm	10-40	10-40
Ash Content, (AASHTO T 111), %	1 max	1 max
Solubility in Trichlorethylene Test, (AASHTO T 44) <sup>[2]</sup>	97.5% min	97.5% min

<sup>[1]</sup> Paddle Viscosity (AASHTO T 382) may be run in lieu of Saybolt Viscosity (AASHTO T 59).  
<sup>[2]</sup> The solubility in Trichlorethylene test (AASHTO T 44) may be run in lieu of Ash Content (AASHTO T 111).

**455.2.5 Tack Coat**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) Under the Tack Coat bid item, furnish type SS-1h, CSS-1h, QS-1h, CQS-1h, ANTT, CNTT, or modified emulsified asphalt with an “h” suffix, unless the contract specifies otherwise.

**710.5.7 Corrective Action**

**710.5.7.1 Optimized Aggregate Gradations**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by less than or equal to 1.0 percent on a single sieve size, notify the other party immediately and do one of the following:
  - Perform corrective action documented in the QC plan or as the engineer approves. Continue with the following:
    1. Document and provide corrective action results to the engineer as soon as they are available.
    2. Department will conduct two tests within the next business day after corrective action is complete.
      - If blended aggregate gradations are within the tarantula curve limits by the second department test:
        - Continue with concrete production.
        - Include a break in the 4-point running average.
        - For Class I Pavements: The department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
      - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract requires an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit a new optimized aggregate gradation mix design.
      - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract does not require an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit either a new optimized aggregate gradation mix design or a combined aggregate gradation mix design.
  - Submit a new optimized aggregate gradation mix design and perform the following:
    1. Restart control charts for the new mix design.
    2. Amend contractor Quality Control Plan

**715.5 Payment**

*Replace the entire text with the following effective with the November 2022 letting:*

**715.5.1 General**

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

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
715.0502	Incentive Strength Concrete Structures	DOL
715.0603	Incentive Strength Concrete Barrier	DOL
715.0715	Incentive Flexural Strength Concrete Pavement	DOL
715.0720	Incentive Compressive Strength Concrete Pavement	DOL

- (2) Incentive payment may be more or less than the amount the schedule of items shows.
- (3) The department will administer disincentives for strength under the Disincentive Strength Concrete Structures, Disincentive Strength Concrete Barrier, Disincentive Flexural Strength Concrete Pavement, and Disincentive Compressive Strength Concrete Pavement, administrative items.
- (4) The department will adjust pay for each lot using PWL of the 28-day subplot average strengths for that lot. The department will measure PWL relative to strength lower specification limits as follows:
  - Compressive strength of 3700 psi for pavements.
  - Flexural strength of 650 psi for pavements.
  - Compressive strength of 4000 psi for structures and barrier.
- (5) The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.2.
- (6) Submit test results to the department electronically using MRS software. The department will verify contractor data before determining pay adjustments.
- (7) All coring and testing costs under 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.

**715.5.2 Pavements**

**715.5.2.1 Compressive**

- (1) The department will adjust pay for each lot using equation “QMP 3.01” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 95 to 100	$(0.1 \times \text{PWL}) - 9.5$
>= 85 to < 95	0
>= 30 to < 85	$(1.5/55 \times \text{PWL}) - 127.5/55$
< 30	-1.50

- (2) The department will not pay incentive if the lot standard deviation is greater than 400 psi compressive.
- (3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 3700 psi compressive by \$1.50 per square yard.
- (4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

**715.5.2.2 Flexural**

- (1) The department will adjust pay for each lot using equation “QMP 6.02” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 95 to 100	$(0.2 \times \text{PWL}) - 19$
>= 85 to < 95	0
>= 50 to < 85	$(2.0/35 \times \text{PWL}) - 170/35$
< 50	-2.00

- (2) The department will not pay incentive if the lot standard deviation is greater than 60 psi flexural.
- (3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 650 psi flexural by \$2.00 per square yard.
- (4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

**715.5.3 Structures and Cast-in-Place Barrier**

- (1) The department will adjust pay for each lot using equation “QMP 2.01” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 99 to 100	10
>= 90 to < 99	0
>= 50 to < 90	$(7/8 \times \text{PWL}) - 78.75$
< 50	-35

- (2) The department will not pay incentive if the lot standard deviation is greater than 350 psi.
- (3) For lots with less than 4 sublots, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 4000 psi by \$35 per cubic yard.

## ADDITIONAL SPECIAL PROVISION 7

### A. Reporting 1<sup>st</sup> Tier and DBE Payments During Construction

1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
5. DBE firms must enter all payments to DBE and non-DBE firms regardless of tier.
6. 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).
7. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4), (5), and (6), and shall be binding on all first tier subcontractor relationships, all contractors and subcontractors utilizing DBE firms on the project, and all payments from DBE firms.

### B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov) within 5 days of payment receipt to be logged manually.

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

<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](mailto: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. Non-segregated 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. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

**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, United States Code, as required in 23 CFR 633.102(b) (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). 23 CFR 633.102(e).

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. 23 CFR 633.102(e).

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) in accordance with 23 CFR 633.102. 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 solicitation-for-bids or request-for-proposals 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). 23 CFR 633.102(b).

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. 23 CFR 633.102(d).

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. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

**II. NONDISCRIMINATION** (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A 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 Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), 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 Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), 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 Part 230, Subpart A, 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 (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 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 Part 35 and 29 CFR Part 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. 23 CFR 230.409 (g)(4) & (5).

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, sexual orientation, gender identity, 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 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 or other knowledgeable company official.

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, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure 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. 23 CFR 230.409. 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, sexual orientation, gender identity, 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, sexual orientation, gender identity, 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 thereunder. 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, sexual orientation, gender identity, 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, 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. Assurances Required:**

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient 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 recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

**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 more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, 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, sexual orientation, gender identity, 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), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

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 (29 CFR 5.5)

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, 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 Administrator for determination. The 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 (29 CFR 5.5)**

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 (29 CFR 5.5)**

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. 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 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), 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 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 18 U.S.C. 1001 and 31 U.S.C. 231.

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 (29 CFR 5.5)

##### 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. 23 CFR 230.111(e)(2). 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 as provided in 29 CFR 5.5.

**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 as provided in 29 CFR 5.5.

**9. Disputes concerning labor standards.** As provided in 29 CFR 5.5, 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 (29 CFR 5.5)**

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**

Pursuant to 29 CFR 5.5(b), 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. 29 CFR 5.5.

**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 currently provided in 29 CFR 5.5(b)(2)\* 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. 29 CFR 5.5.

\* \$27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).



### **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. 29 CFR 5.5.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 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. 29 CFR 5.5.

## **VI. SUBLETTING OR ASSIGNING THE CONTRACT**

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

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" in paragraph 1 of Section VI 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: (based on longstanding interpretation)

- (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. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), 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. Pursuant to 23 CFR 635.116(c), 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. (based on longstanding interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

## **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 Part 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. 23 CFR 635.108.

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 Part 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). 29 CFR 1926.10.

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 Part 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 11, 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 (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)**

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders

or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

### **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. 2 CFR 180.220 and 1200.220.

#### **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. 2 CFR 180.320.

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. 2 CFR 180.325.

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. 2 CFR 180.345 and 180.350.

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, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient 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 recipient or subrecipient 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. 2 CFR 180.330.

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. 2 CFR 180.220 and 180.300.

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. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. 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 System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

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 CFR 180.325.

\* \* \* \* \*

## **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 CFR 180.335;.

(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, 2 CFR 180.800;

(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, 2 CFR 180.700 and 180.800; 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. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

## **3. 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). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant 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. 2 CFR 180.365.

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, Subpart I, 180.900 – 180.1020, 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 recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "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 recipient or subrecipient 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. 2 CFR 1200.220 and 1200.332.

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. 2 CFR 180.220 and 1200.220.

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 System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

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. 2 CFR 180.325.

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**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:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

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**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 Part 20, App. A.

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.

## **XII. USE OF UNITED STATES-FLAG VESSELS:**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor 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. 46 CFR 381.7.
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 Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**

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).



**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.

## **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.

## BUY AMERICA PROVISION

Buy America (as documented in M-22-11 from the Office of Management and Budget: <https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

### 1. Iron and Steel

All iron and steel manufacturing and coating processes (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 the iron and steel manufacturing and coating processes Buy America 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.

### 2. Manufactured Product

All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983, and are currently exempt from Buy America.

### 3. Construction Material

All construction materials (as defined in OMB M-22-11 and as referenced in CMM 228.5) must comply with Buy America. No exemptions (0.0%) are allowed.

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Buy America provision.

<https://wisconsin.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project, certify to the engineer, in writing using department form DT4567 that all iron and steel, manufactured products, and construction materials conform to this Buy America provision.

Form DT4567 is available at: <https://wisconsin.gov/Documents/formdocs/dt4567.docx>

Attach a list of iron or steel exemptions and their associated costs to the certification form.

## 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](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

Superseded General Decision Number: WI20210010

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: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 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 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.



1	01/21/2022
2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022
8	06/17/2022
9	07/08/2022
10	07/22/2022
11	07/29/2022
12	08/12/2022
13	09/16/2022
14	10/14/2022
15	12/16/2022

BRWI0001-002 06/01/2021

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 36.81	25.17

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BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.35	23.89

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BRWI0002-005 06/01/2021

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...	\$ 37.73	24.15

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BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.30	26.03

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BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,  
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.78	24.20

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BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.38	25.31

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BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.38	24.64

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BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0019-002 06/01/2021

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,  
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 36.31	25.67

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BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.53	25.16

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CARP0068-011 05/02/2022

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.....	\$ 41.19	27.05

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CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON

COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

\* CARP0310-002 06/05/2022

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon, Oneida, Shawano, Taylor and Vilas

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

\* CARP0314-001 06/05/2022

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk and Walworth

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

\* CARP0731-002 06/05/2022

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc and Sheboygan

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

\* CARP0804-001 06/05/2022

Adams, Juneau, Portage and Wood

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

\* CARP0955-002 06/01/2022

Calumet (western portion of County), Fond Du Lac, Green Lake, Marquette, Outagamie and Winnebago

Rates Fringes

CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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 \* CARP1056-002 06/05/2022

	Rates	Fringes
MILLWRIGHT.....	\$ 38.00	26.78

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 \* CARP1074-002 06/01/2022

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,  
 Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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 \* CARP1143-002 06/01/2022

Crawford, Jackson, La Crosse, Monroe, Trempealeau and Vernon

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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 \* CARP1146-002 06/01/2022

Brown, Door, Florence, Kewaunee, Marinette, Menominee and  
 Shawano

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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 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

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 ELEC0014-002 05/29/2022

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
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Electricians:.....\$ 38.49 22.09

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ELEC0014-007 05/29/2022

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer.....	\$ 29.63	3%+16.18
Installer/Technician.....	\$ 28.50	15.92

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).

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ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

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ELEC0158-002 05/30/2021

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
ELECTRICIAN.....	\$ 36.14	29.75%+10.26

-----  
ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13

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ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		

\$180,000.....	\$ 33.94	21.80
Electrical contracts under		
\$180,000.....	\$ 31.75	21.73

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 ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%

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 ELEC0388-002 05/30/2021

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:.....	\$ 36.22	26%+11.24

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 ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35

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 ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 44.39	25.67

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 ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74

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 ELEC0494-013 06/01/2021

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.....	\$ 22.39	18.80
Technician.....	\$ 32.49	20.26

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

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 ELEC0577-003 06/01/2021

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:.....	\$ 35.66	29.50%+10.00

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 ELEC0890-003 06/01/2021

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17

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 ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 47.53	21.43
(2) Heavy Equipment Operator.....	\$ 42.78	19.80
(3) Equipment Operator.....	\$ 38.02	18.40
(4) Heavy Groundman Driver..	\$ 33.27	16.88
(5) Light Groundman Driver..	\$ 30.89	16.11
(6) Groundsman.....	\$ 26.14	14.60

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 ENGI0139-005 06/01/2022

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.27	25.95
Group 2.....	\$ 42.77	25.95
Group 3.....	\$ 42.27	25.95

Group 4.....	\$ 42.01	25.95
Group 5.....	\$ 41.72	25.95
Group 6.....	\$ 35.82	25.95

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, day light machine



GROUP 6: Off-road material hauler with or without ejector.

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IRON0008-002 06/13/2022

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,  
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO  
COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.00	28.95

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor  
Day, Thanksgiving Day & Christmas Day.

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IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),  
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor  
Day, Thanksgiving Day & Christmas Day.

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IRON0383-001 06/05/2022

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.....	\$ 39.00	28.58

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IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and  
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.37	44.41

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IRON0512-008 05/01/2022

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,  
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU  
COUNTIES

	Rates	Fringes
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IRONWORKER.....\$ 41.00 33.11

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IRON0512-021 05/01/2022

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,  
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.94	33.11

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LAB00113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.65	23.09
Group 2.....	\$ 32.80	23.09
Group 3.....	\$ 33.00	23.09
Group 4.....	\$ 33.15	23.09
Group 5.....	\$ 33.30	23.09
Group 6.....	\$ 29.14	23.09

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

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LAB00113-003 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.90	23.09
Group 2.....	\$ 32.00	23.09
Group 3.....	\$ 32.05	23.09
Group 4.....	\$ 32.25	23.09
Group 5.....	\$ 32.10	23.09
Group 6.....	\$ 28.99	23.09

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

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LAB00113-011 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.71	23.09
Group 2.....	\$ 31.86	23.09
Group 3.....	\$ 32.06	23.09
Group 4.....	\$ 32.03	23.09
Group 5.....	\$ 32.36	23.09
Group 6.....	\$ 28.85	23.09

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

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LAB00140-002 06/01/2022

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.....	\$ 36.42	18.68
Group 2.....	\$ 36.52	18.68
Group 3.....	\$ 36.57	18.68
Group 4.....	\$ 36.77	18.68
Group 5.....	\$ 36.62	18.68
Group 6.....	\$ 33.05	18.68

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

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LAB00464-003 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 36.70	18.68
Group 2.....	\$ 36.80	18.68
Group 3.....	\$ 36.85	18.68
Group 4.....	\$ 37.05	18.68
Group 5.....	\$ 36.90	18.68
Group 6.....	\$ 33.05	18.68

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

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 PAIN0106-008 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 33.99	22.70
Spray, Sandblast, Steel....	\$ 34.59	22.70
Repaint:		
Brush, Roller.....	\$ 33.09	22.70
Spray, Sandblast, Steel....	\$ 32.49	22.70

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 PAIN0108-002 06/01/2022

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 39.60	21.79
Spray & Sandblast.....	\$ 40.60	21.79

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 PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
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 06/01/2022

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 38.15	24.80
Brush.....	\$ 37.40	24.80
Spray & Sandblast.....	\$ 38.15	24.80

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PAIN0802-002 06/01/2021

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,  
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 29.98	18.78

PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per  
hour.

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\* PAIN0802-003 06/01/2022

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.....	\$ 34.68	18.94

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PAIN0934-001 06/01/2022

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 36.70	24.69
Spray.....	\$ 37.70	24.69
Structural Steel.....	\$ 36.85	24.69

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PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 26.71	14.38

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PLAS0599-010 06/01/2021

	Rates	Fringes
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CEMENT MASON/CONCRETE FINISHER

Area 1.....	\$ 42.06	20.87
Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

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

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TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	\$ 32.72	23.81
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WELL DRILLER.....	\$ 16.52	3.70
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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 <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

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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.

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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 National Office because National Office has 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 DECISIO"

"General Decision Number: WI20220008 12/16/2022

Superseded General Decision Number: WI20210008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<ul style="list-style-type: none"> <li>. Executive Order 14026 generally applies to the contract.</li> <li>. The contractor must pay all covered workers at least \$15.00 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 2022.</li> </ul>
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<ul style="list-style-type: none"> <li>. Executive Order 13658 generally applies to the contract.</li> <li>. The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.</li> </ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	06/17/2022
8	07/08/2022
9	07/15/2022
10	07/29/2022
11	08/05/2022
12	08/12/2022
13	09/16/2022
14	10/14/2022
15	12/16/2022

BRWI0001-002 06/01/2021

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 36.81	25.17

-----  
BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.35	23.89

-----  
BRWI0002-005 06/01/2021

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...	\$ 37.73	24.15

-----  
BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.30	26.03

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BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,  
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.78	24.20
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BRWI0007-002 06/01/2021		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.38	25.31
-----		
BRWI0008-002 06/01/2021		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.38	24.64
-----		
BRWI0009-001 06/01/2021		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,  
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95
-----		
BRWI0011-002 06/01/2021		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95
-----		
BRWI0013-002 06/01/2021		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.53	25.16
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BRWI0019-002 06/01/2021		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,  
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 36.31	25.67
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BRWI0021-002 06/01/2021		

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.75	25.92

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BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.53	25.16

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CARP0068-011 05/02/2022

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.....	\$ 41.19	27.05

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CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

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\* CARP0310-002 06/05/2022

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon, Oneida, Shawano, Taylor and Vilas

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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\* CARP0314-001 06/05/2022

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk and Walworth

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

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\* CARP0731-002 06/05/2022

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc

and Sheboygan

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

-----  
\* CARP0804-001 06/05/2022

Adams, Juneau, Portage and Wood

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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\* CARP0955-002 06/01/2022

Calumet (western portion of County), Fond Du Lac, Green Lake,  
Marquette, Outagamie and Winnebago

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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\* CARP1056-002 06/05/2022

	Rates	Fringes
MILLWRIGHT.....	\$ 38.00	26.78

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\* CARP1074-002 06/01/2022

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,  
Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

-----  
\* CARP1143-002 06/01/2022

Crawford, Jackson, La Crosse, Monroe, Trempealeau and Vernon

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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\* CARP1146-002 06/01/2022

Brown, Door, Florence, Kewaunee, Marinette, Menominee and  
Shawano

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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

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CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 33.58	21.53
Zone B.....	\$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

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ELEC0014-002 05/29/2022

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:.....	\$ 38.49	22.09

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ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

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ELEC0158-002 05/30/2021

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
ELECTRICIAN.....	\$ 36.14	29.75%+10.26

-----  
ELEC0159-003 05/30/2021



COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13

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 ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 33.94	21.80
Electrical contracts under		
\$180,000.....	\$ 31.75	21.73

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 ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%

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 ELEC0388-002 05/30/2021

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:.....	\$ 36.22	26%+11.24

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 ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35

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 ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 44.39	25.67

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 ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74
-----		
ELEC0577-003 06/01/2021		

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:.....	\$ 35.66	29.50%+10.00
-----		
ELEC0890-003 06/01/2021		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17
-----		
ENGI0139-003 06/06/2022		

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 45.22	24.85
Group 2.....	\$ 43.97	24.85
Group 3.....	\$ 41.57	24.85
Group 4.....	\$ 41.04	24.85
Group 5.....	\$ 38.97	24.85
Group 6.....	\$ 37.44	24.85

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

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 ENGI0139-007 06/05/2022

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.54	24.85
Group 2.....	\$ 42.76	24.85
Group 3.....	\$ 41.81	24.85
Group 4.....	\$ 40.76	24.85
Group 5.....	\$ 39.36	24.85

#### 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 (145 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).

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IRON0008-002 06/13/2022

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,  
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO  
COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.00	28.95

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor  
Day, Thanksgiving Day & Christmas Day.

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IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),  
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor  
Day, Thanksgiving Day & Christmas Day.

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IRON0383-001 06/05/2022

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.....	\$ 39.00	28.58

-----  
IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and  
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.37	44.41

-----  
IRON0512-008 05/01/2022

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,  
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU  
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 41.00	33.11

-----  
IRON0512-021 05/01/2022

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,  
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.94	33.11

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LABO0113-004 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 17.62	21.98
Group 2.....	\$ 19.89	21.98
Group 3.....	\$ 23.43	21.98
Group 4.....	\$ 32.80	21.98
Group 5.....	\$ 32.94	21.98
Group 6.....	\$ 33.00	21.98
Group 7.....	\$ 36.85	21.98
Group 8.....	\$ 39.67	21.98
Group 9.....	\$ 40.31	21.98

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 06/06/2022

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 24.29	21.98
Group 2.....	\$ 30.22	21.98

Group 3.....	\$ 34.42	21.98
Group 4.....	\$ 36.19	21.98

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

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LAB00113-008 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 23.43	21.98
Group 2.....	\$ 32.94	21.98
Group 3.....	\$ 33.00	21.98
Group 4.....	\$ 36.98	21.98
Group 5.....	\$ 36.99	21.98
Group 6.....	\$ 39.67	21.98
Group 7.....	\$ 40.31	21.98

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

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\* LAB00113-009 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 23.43	21.98
Group 2.....	\$ 32.94	21.98
Group 3.....	\$ 37.39	21.98
Group 4.....	\$ 38.19	21.98
Group 5.....	\$ 38.31	21.98
Group 6.....	\$ 41.01	21.98
Group 7.....	\$ 41.63	21.98

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.

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LAB00140-005 06/06/2022

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.....	\$ 31.48	18.68
Group 2.....	\$ 33.33	18.68
Group 3.....	\$ 33.53	18.68
Group 4.....	\$ 34.28	18.68

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

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LAB00464-002 06/06/2022

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.38	18.68
Group 2.....	\$ 33.58	18.68
Group 3.....	\$ 33.78	18.68
Group 4.....	\$ 34.53	18.68

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

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LAB01091-010 06/06/2022

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 31.17	18.68
Group 2.....	\$ 33.23	18.68
Group 3.....	\$ 33.43	18.68
Group 4.....	\$ 34.18	18.68

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

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PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 42.06	20.87
Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

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

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TEAM0039-001 06/01/2021

Rates Fringes

TRUCK DRIVER		
1 & 2 Axles.....	\$ 32.57	23.81
3 or more Axles; Euclids, Dumpton & Articulated, Truck Mechanic.....	\$ 32.72	23.81
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WELL DRILLER.....	\$ 16.52	3.70
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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 <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

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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.

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#### 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 National Office because National Office has 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 DECISIO"

## **NOTICE TO BIDDERS WAGE RATE DECISION**

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

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

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

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

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0220 Grubbing	563.000 ID	_____.	_____.
0004	204.0100 Removing Concrete Pavement	32,360.000 SY	_____.	_____.
0006	204.0120 Removing Asphaltic Surface Milling	3,072.000 SY	_____.	_____.
0008	204.0130 Removing Curb	68.000 LF	_____.	_____.
0010	204.0150 Removing Curb & Gutter	695.000 LF	_____.	_____.
0012	204.0155 Removing Concrete Sidewalk	3,726.000 SY	_____.	_____.
0014	204.0170 Removing Fence	212.000 LF	_____.	_____.
0016	204.0195 Removing Concrete Bases	39.000 EACH	_____.	_____.
0018	204.0210 Removing Manholes	23.000 EACH	_____.	_____.
0020	204.0220 Removing Inlets	40.000 EACH	_____.	_____.
0022	204.0245 Removing Storm Sewer (size) 01. 12-Inch	1,763.000 LF	_____.	_____.
0024	204.0245 Removing Storm Sewer (size) 02. 15-Inch	89.000 LF	_____.	_____.
0026	204.0245 Removing Storm Sewer (size) 03. 18-Inch	419.000 LF	_____.	_____.
0028	204.0245 Removing Storm Sewer (size) 04. 21-Inch	19.000 LF	_____.	_____.
0030	204.0245 Removing Storm Sewer (size) 05. 24-Inch	834.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.0245 Removing Storm Sewer (size) 06. 27-Inch	223.000 LF	_____.	_____.
0034	204.0245 Removing Storm Sewer (size) 07. 30-Inch	648.000 LF	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 08. 36-Inch	244.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 09. 42-Inch	8.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 10. 66-Inch	36.000 LF	_____.	_____.
0042	204.0280 Sealing Pipes	1.000 EACH	_____.	_____.
0044	204.9060.S Removing (item description) 01. Traffic Signals W North Avenue and N 104th Street	1.000 EACH	_____.	_____.
0046	204.9060.S Removing (item description) 02. Lighting System	1.000 EACH	_____.	_____.
0048	204.9090.S Removing (item description) 01. Retaining Wall	220.000 LF	_____.	_____.
0050	205.0100 Excavation Common	42,553.000 CY	_____.	_____.
0052	213.0100 Finishing Roadway (project) 01. 2135-04-71	1.000 EACH	_____.	_____.
0054	305.0120 Base Aggregate Dense 1 1/4-Inch	25,909.000 TON	_____.	_____.
0056	310.0110 Base Aggregate Open-Graded	79.000 TON	_____.	_____.
0058	311.0110 Breaker Run	23,704.000 TON	_____.	_____.





## Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0060	320.0125 Concrete Base 6-Inch	256.000 SY	_____.	_____.
0062	320.0145 Concrete Base 8-Inch	94.000 SY	_____.	_____.
0064	415.0085 Concrete Pavement 8 1/2-Inch	829.000 SY	_____.	_____.
0066	416.0170 Concrete Driveway 7-Inch	698.000 SY	_____.	_____.
0068	416.0610 Drilled Tie Bars	765.000 EACH	_____.	_____.
0070	416.0620 Drilled Dowel Bars	187.000 EACH	_____.	_____.
0072	450.4000 HMA Cold Weather Paving	1,813.000 TON	_____.	_____.
0074	455.0605 Tack Coat	3,017.000 GAL	_____.	_____.
0076	460.2000 Incentive Density HMA Pavement	8,889.000 DOL	1.00000	8,889.00
0078	460.6223 HMA Pavement 3 MT 58-28 S	8,533.000 TON	_____.	_____.
0080	460.6424 HMA Pavement 4 MT 58-28 H	3,095.000 TON	_____.	_____.
0082	465.0120 Asphaltic Surface Driveways and Field Entrances	798.000 TON	_____.	_____.
0084	465.0125 Asphaltic Surface Temporary	725.000 TON	_____.	_____.
0086	504.2000.S Precast Concrete Box Culvert (ft X ft) 01. 7-FT X 6-FT	28.000 LF	_____.	_____.
0088	517.1010.S Concrete Staining (structure) 01. R-40-733	413.000 SF	_____.	_____.
0090	520.8000 Concrete Collars for Pipe	5.000 EACH	_____.	_____.



## Proposal Schedule of Items

Page 4 of 23

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0092	530.0124 Culvert Pipe Corrugated Polyethylene 24-Inch	35.000 LF	_____.	_____.
0094	601.0110 Concrete Curb Type D	80.000 LF	_____.	_____.
0096	601.0205 Concrete Gutter 24-Inch	266.000 LF	_____.	_____.
0098	601.0319 Concrete Curb & Gutter 19-Inch	5,252.000 LF	_____.	_____.
0100	601.0331 Concrete Curb & Gutter 31-Inch	6,977.000 LF	_____.	_____.
0102	601.0407 Concrete Curb & Gutter 18-Inch Type D	70.000 LF	_____.	_____.
0104	601.0409 Concrete Curb & Gutter 30-Inch Type A	63.000 LF	_____.	_____.
0106	601.0600 Concrete Curb Pedestrian	132.000 LF	_____.	_____.
0108	602.0410 Concrete Sidewalk 5-Inch	43,731.000 SF	_____.	_____.
0110	602.0505 Curb Ramp Detectable Warning Field Yellow	336.000 SF	_____.	_____.
0112	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	770.000 SF	_____.	_____.
0114	602.1500 Concrete Steps	92.000 SF	_____.	_____.
0116	608.0321 Storm Sewer Pipe Reinforced Concrete Class III 21-Inch	19.000 LF	_____.	_____.
0118	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	308.000 LF	_____.	_____.
0120	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	145.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0122	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	351.000 LF	_____.	_____.
0124	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	400.000 LF	_____.	_____.
0126	608.0366 Storm Sewer Pipe Reinforced Concrete Class III 66-Inch	8.000 LF	_____.	_____.
0128	608.0372 Storm Sewer Pipe Reinforced Concrete Class III 72-Inch	774.000 LF	_____.	_____.
0130	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	488.000 LF	_____.	_____.
0132	608.0466 Storm Sewer Pipe Reinforced Concrete Class IV 66-Inch	270.000 LF	_____.	_____.
0134	608.0472 Storm Sewer Pipe Reinforced Concrete Class IV 72-Inch	195.000 LF	_____.	_____.
0136	608.0512 Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	975.000 LF	_____.	_____.
0138	608.0515 Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	992.000 LF	_____.	_____.
0140	608.0572 Storm Sewer Pipe Reinforced Concrete Class V 72-Inch	346.000 LF	_____.	_____.
0142	611.0420 Reconstructing Manholes	1.000 EACH	_____.	_____.
0144	611.0624 Inlet Covers Type H	7.000 EACH	_____.	_____.
0146	611.0648 Inlet Covers Type R	11.000 EACH	_____.	_____.
0148	611.0666 Inlet Covers Type Z	21.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0150	611.1003 Catch Basins 3-FT Diameter	14.000 EACH	_____.	_____.
0152	611.1004 Catch Basins 4-FT Diameter	7.000 EACH	_____.	_____.
0154	611.1230 Catch Basins 2x3-FT	6.000 EACH	_____.	_____.
0156	611.1253 Catch Basins 2.5x3-FT	9.000 EACH	_____.	_____.
0158	611.2004 Manholes 4-FT Diameter	1.000 EACH	_____.	_____.
0160	611.2005 Manholes 5-FT Diameter	2.000 EACH	_____.	_____.
0162	611.2006 Manholes 6-FT Diameter	3.000 EACH	_____.	_____.
0164	611.2007 Manholes 7-FT Diameter	2.000 EACH	_____.	_____.
0166	611.2008 Manholes 8-FT Diameter	2.000 EACH	_____.	_____.
0168	611.2010 Manholes 10-FT Diameter	12.000 EACH	_____.	_____.
0170	611.2504 Manholes Variable Tee 4-FT Diameter	1.000 EACH	_____.	_____.
0172	611.3230 Inlets 2x3-FT	1.000 EACH	_____.	_____.
0174	611.8110 Adjusting Manhole Covers	1.000 EACH	_____.	_____.
0176	611.8115 Adjusting Inlet Covers	2.000 EACH	_____.	_____.
0178	611.8120.S Cover Plates Temporary	50.000 EACH	_____.	_____.
0180	612.0106 Pipe Underdrain 6-Inch	1,113.000 LF	_____.	_____.
0182	612.0206 Pipe Underdrain Unperforated 6-Inch	45.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0184	612.0212 Pipe Underdrain Unperforated 12-Inch	45.000 LF	_____.	_____.
0186	612.0218 Pipe Underdrain Unperforated 18-Inch	90.000 LF	_____.	_____.
0188	612.0406 Pipe Underdrain Wrapped 6-Inch	108.000 LF	_____.	_____.
0190	619.1000 Mobilization	1.000 EACH	_____.	_____.
0192	620.0300 Concrete Median Sloped Nose	559.000 SF	_____.	_____.
0194	624.0100 Water	479.000 MGAL	_____.	_____.
0196	627.0200 Mulching	8,069.000 SY	_____.	_____.
0198	628.1905 Mobilizations Erosion Control	4.000 EACH	_____.	_____.
0200	628.1910 Mobilizations Emergency Erosion Control	8.000 EACH	_____.	_____.
0202	628.7005 Inlet Protection Type A	129.000 EACH	_____.	_____.
0204	628.7015 Inlet Protection Type C	137.000 EACH	_____.	_____.
0206	628.7020 Inlet Protection Type D	7.000 EACH	_____.	_____.
0208	628.7560 Tracking Pads	6.000 EACH	_____.	_____.
0210	630.0200 Seeding Temporary	218.000 LB	_____.	_____.
0212	631.0300 Sod Water	361.000 MGAL	_____.	_____.
0214	631.1000 Sod Lawn	8,069.000 SY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0216	632.0101 Trees (species) (size) (root) 01. American Hornbeam (Musckewood), B&B, 1.5"	1.000 EACH	_____.	_____.
0218	632.0101 Trees (species) (size) (root) 02. MaacNificent Amur Maackia, B&B, 8'-10'	5.000 EACH	_____.	_____.
0220	632.0101 Trees (species) (size) (root) 03. Emerald Spire Flowering Crabapple, B&B, 1.5"	10.000 EACH	_____.	_____.
0222	632.0101 Trees (species) (size) (root) 04. Adirondack Crabapple, B&B, 8'-10'	25.000 EACH	_____.	_____.
0224	632.0101 Trees (species) (size) (root) 05. Ivory Silk Japanese Tree Lilac, b&B, 1.5"	13.000 EACH	_____.	_____.
0226	632.0101 Trees (species) (size) (root) 06. Early Glow Ohio Buckeye, B&B, 2.5"	6.000 EACH	_____.	_____.
0228	632.0101 Trees (species) (size) (root) 07. Chicagoland Hackberry, B&B, 2.5"	8.000 EACH	_____.	_____.
0230	632.0101 Trees (species) (size) (root) 08. American Beech, B&B, 2.5"	2.000 EACH	_____.	_____.
0232	632.0101 Trees (species) (size) (root) 09. Princeton Sentry Gingko (male seedless), B&B, 2.5"	3.000 EACH	_____.	_____.
0234	632.0101 Trees (species) (size) (root) 10. Espresso Kentucky Coffeetree, B&B, 2.5"	5.000 EACH	_____.	_____.
0236	632.0101 Trees (species) (size) (root) 11. Emerald City Tuliptree, B&B, 2.5"	10.000 EACH	_____.	_____.
0238	632.0101 Trees (species) (size) (root) 12. Dawn Redwood, B&B, 2.5"	4.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0240	632.0101 Trees (species) (size) (root) 13. Exclamation London Planetree, B&B, 2.5"	8.000 EACH	_____.	_____.
0242	632.0101 Trees (species) (size) (root) 14. Heritage Oak, B&B, 2.0"	8.000 EACH	_____.	_____.
0244	632.0101 Trees (species) (size) (root) 15. Shawnee Brave Baldcypress, B&B, 2.5"	3.000 EACH	_____.	_____.
0246	632.0101 Trees (species) (size) (root) 16. Accolade Elm, B&B, 2.5"	11.000 EACH	_____.	_____.
0248	632.9101 Landscape Planting Surveillance and Care Cycles	15.000 EACH	_____.	_____.
0250	637.2210 Signs Type II Reflective H	361.480 SF	_____.	_____.
0252	637.2215 Signs Type II Reflective H Folding	28.180 SF	_____.	_____.
0254	637.2230 Signs Type II Reflective F	224.250 SF	_____.	_____.
0256	638.2102 Moving Signs Type II	34.000 EACH	_____.	_____.
0258	638.2602 Removing Signs Type II	112.000 EACH	_____.	_____.
0260	638.3000 Removing Small Sign Supports	44.000 EACH	_____.	_____.
0262	642.5201 Field Office Type C	1.000 EACH	_____.	_____.
0264	643.0300 Traffic Control Drums	46,323.000 DAY	_____.	_____.
0266	643.0420 Traffic Control Barricades Type III	16,637.000 DAY	_____.	_____.
0268	643.0500 Traffic Control Flexible Tubular Marker Posts	204.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0270	643.0600 Traffic Control Flexible Tubular Marker Bases	204.000 EACH	_____.	_____.
0272	643.0705 Traffic Control Warning Lights Type A	33,274.000 DAY	_____.	_____.
0274	643.0715 Traffic Control Warning Lights Type C	7,260.000 DAY	_____.	_____.
0276	643.0800 Traffic Control Arrow Boards	521.000 DAY	_____.	_____.
0278	643.0900 Traffic Control Signs	18,797.000 DAY	_____.	_____.
0280	643.0910 Traffic Control Covering Signs Type I	5.000 EACH	_____.	_____.
0282	643.0920 Traffic Control Covering Signs Type II	10.000 EACH	_____.	_____.
0284	643.1050 Traffic Control Signs PCMS	84.000 DAY	_____.	_____.
0286	643.3105 Temporary Marking Line Paint 4-Inch	27,716.000 LF	_____.	_____.
0288	643.3150 Temporary Marking Line Removable Tape 4-Inch	6,242.000 LF	_____.	_____.
0290	643.3205 Temporary Marking Line Paint 8-Inch	4,285.000 LF	_____.	_____.
0292	643.3250 Temporary Marking Line Removable Tape 8-Inch	609.000 LF	_____.	_____.
0294	643.3805 Temporary Marking Stop Line Paint 18-Inch	154.000 LF	_____.	_____.
0296	644.1410 Temporary Pedestrian Surface Asphalt	300.000 SF	_____.	_____.
0298	644.1605 Temporary Pedestrian Detectable Warning Field	140.000 SF	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0300	644.1810 Temporary Pedestrian Barricade	1,709.000 LF	_____.	_____.
0302	645.0111 Geotextile Type DF Schedule A	467.000 SY	_____.	_____.
0304	645.0140 Geotextile Type SAS	436.000 SY	_____.	_____.
0306	646.1020 Marking Line Epoxy 4-Inch	4,794.000 LF	_____.	_____.
0308	646.3020 Marking Line Epoxy 8-Inch	2,117.000 LF	_____.	_____.
0310	646.5020 Marking Arrow Epoxy	55.000 EACH	_____.	_____.
0312	646.5120 Marking Word Epoxy	3.000 EACH	_____.	_____.
0314	646.5220 Marking Symbol Epoxy	44.000 EACH	_____.	_____.
0316	646.6120 Marking Stop Line Epoxy 18-Inch	200.000 LF	_____.	_____.
0318	646.6220 Marking Yield Line Epoxy 18-Inch	10.000 EACH	_____.	_____.
0320	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	1,339.000 LF	_____.	_____.
0322	646.8120 Marking Curb Epoxy	440.000 LF	_____.	_____.
0324	646.8220 Marking Island Nose Epoxy	17.000 EACH	_____.	_____.
0326	650.4000 Construction Staking Storm Sewer	120.000 EACH	_____.	_____.
0328	650.4500 Construction Staking Subgrade	3,377.000 LF	_____.	_____.
0330	650.5000 Construction Staking Base	3,377.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0332	650.5500 Construction Staking Curb Gutter and Curb & Gutter	12,840.000 LF	_____.	_____.
0334	650.8000 Construction Staking Resurfacing Reference	158.000 LF	_____.	_____.
0336	650.8501 Construction Staking Electrical Installations (project) 01. 2135-04-71	1.000 EACH	_____.	_____.
0338	650.9000 Construction Staking Curb Ramps	59.000 EACH	_____.	_____.
0340	650.9500 Construction Staking Sidewalk (project) 01. 2135-04-71	1.000 EACH	_____.	_____.
0342	650.9911 Construction Staking Supplemental Control (project) 01. 2135-04-71	1.000 EACH	_____.	_____.
0344	650.9920 Construction Staking Slope Stakes	3,535.000 LF	_____.	_____.
0346	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	289.000 LF	_____.	_____.
0348	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	899.000 LF	_____.	_____.
0350	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	737.000 LF	_____.	_____.
0352	652.0615 Conduit Special 3-Inch	94.000 LF	_____.	_____.
0354	652.0800 Conduit Loop Detector	207.000 LF	_____.	_____.
0356	653.0135 Pull Boxes Steel 24x36-Inch	1.000 EACH	_____.	_____.
0358	653.0140 Pull Boxes Steel 24x42-Inch	11.000 EACH	_____.	_____.
0360	653.0900 Adjusting Pull Boxes	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0362	653.0905 Removing Pull Boxes	17.000 EACH	_____.	_____.
0364	654.0101 Concrete Bases Type 1	7.000 EACH	_____.	_____.
0366	654.0102 Concrete Bases Type 2	3.000 EACH	_____.	_____.
0368	654.0105 Concrete Bases Type 5	35.000 EACH	_____.	_____.
0370	654.0110 Concrete Bases Type 10	2.000 EACH	_____.	_____.
0372	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.	_____.
0374	655.0124 Cable In Duct 3-4 AWG	8,173.000 LF	_____.	_____.
0376	655.0230 Cable Traffic Signal 5-14 AWG	611.000 LF	_____.	_____.
0378	655.0240 Cable Traffic Signal 7-14 AWG	180.000 LF	_____.	_____.
0380	655.0260 Cable Traffic Signal 12-14 AWG	1,380.000 LF	_____.	_____.
0382	655.0270 Cable Traffic Signal 15-14 AWG	1,051.000 LF	_____.	_____.
0384	655.0320 Cable Type UF 2-10 AWG Grounded	707.000 LF	_____.	_____.
0386	655.0515 Electrical Wire Traffic Signals 10 AWG	1,430.000 LF	_____.	_____.
0388	655.0610 Electrical Wire Lighting 12 AWG	4,955.000 LF	_____.	_____.
0390	655.0700 Loop Detector Lead In Cable	12.000 LF	_____.	_____.
0392	655.0800 Loop Detector Wire	735.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0394	656.0201 Electrical Service Meter Breaker Pedestal (location) 01. N 101st Street	1.000 EACH	_____.	_____.
0396	657.0100 Pedestal Bases	5.000 EACH	_____.	_____.
0398	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	38.000 EACH	_____.	_____.
0400	657.0310 Poles Type 3	3.000 EACH	_____.	_____.
0402	657.0420 Traffic Signal Standards Aluminum 13-FT	1.000 EACH	_____.	_____.
0404	657.0425 Traffic Signal Standards Aluminum 15-FT	2.000 EACH	_____.	_____.
0406	657.0430 Traffic Signal Standards Aluminum 10-FT	2.000 EACH	_____.	_____.
0408	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	3.000 EACH	_____.	_____.
0410	657.0615 Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	35.000 EACH	_____.	_____.
0412	657.0810 Luminaire Arms Steel 10-FT	2.000 EACH	_____.	_____.
0414	658.0173 Traffic Signal Face 3S 12-Inch	11.000 EACH	_____.	_____.
0416	658.0174 Traffic Signal Face 4S 12-Inch	8.000 EACH	_____.	_____.
0418	658.0416 Pedestrian Signal Face 16-Inch	12.000 EACH	_____.	_____.
0420	658.5070 Signal Mounting Hardware (location) 01. W North Avenue and N 104th Street	1.000 EACH	_____.	_____.
0422	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	29.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0424	661.0201 Temporary Traffic Signals for Intersections (location) 01. STH 100 (N Mayfair Rd) and W North Avenue	1.000 EACH	_____.	_____.
0426	661.0201 Temporary Traffic Signals for Intersections (location) 02. W North Avenue and N 104th Street	1.000 EACH	_____.	_____.
0428	690.0150 Sawing Asphalt	1,072.000 LF	_____.	_____.
0430	690.0250 Sawing Concrete	2,931.000 LF	_____.	_____.
0432	999.1501.S Crack and Damage Survey	1.000 EACH	_____.	_____.
0434	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	4,900.000 HRS	5.00000	24,500.00
0436	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	17,280.000 HRS	5.00000	86,400.00
0438	SPV.0060 Special 01. Remove, Salvage and Reinstall Wheel Stops	15.000 EACH	_____.	_____.
0440	SPV.0060 Special 02. Inlet Covers Type SP	60.000 EACH	_____.	_____.
0442	SPV.0060 Special 03. Manhole Covers Type J-SP	28.000 EACH	_____.	_____.
0444	SPV.0060 Special 04. Catch Basins 2	49.000 EACH	_____.	_____.
0446	SPV.0060 Special 05. Inlets 2	9.000 EACH	_____.	_____.
0448	SPV.0060 Special 06. Special Manhole (Sta. 165+36)	1.000 EACH	_____.	_____.
0450	SPV.0060 Special 07. Special Manhole (Sta. 168+77)	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0452	SPV.0060 Special 08. Temporary Pipe Connection 12-Inch	1.000 EACH	_____.	_____.
0454	SPV.0060 Special 09. Temporary Pipe Connection 15-Inch	1.000 EACH	_____.	_____.
0456	SPV.0060 Special 10. Temporary Pipe Connection 18-Inch	7.000 EACH	_____.	_____.
0458	SPV.0060 Special 11. Temporary Pipe Connection 54-Inch	1.000 EACH	_____.	_____.
0460	SPV.0060 Special 12. Temporary Pipe Connection 72-Inch	1.000 EACH	_____.	_____.
0462	SPV.0060 Special 13. Resilient Wedge Gate Valve, 6-inch	21.000 EACH	_____.	_____.
0464	SPV.0060 Special 14. Resilient Wedge Gate Valve, 8-inch	13.000 EACH	_____.	_____.
0466	SPV.0060 Special 15. Resilient Wedge Gate Valve, 12-inch	12.000 EACH	_____.	_____.
0468	SPV.0060 Special 16. Butterfly Valve, 16-inch	2.000 EACH	_____.	_____.
0470	SPV.0060 Special 17. Butterfly Valve, 20-inch	2.000 EACH	_____.	_____.
0472	SPV.0060 Special 18. Butterfly Valve, 24-inch	11.000 EACH	_____.	_____.
0474	SPV.0060 Special 19. Fire Hydrant	15.000 EACH	_____.	_____.
0476	SPV.0060 Special 20. Rotated A.T. Fire Hydrant	2.000 EACH	_____.	_____.
0478	SPV.0060 Special 21. Hydrant Removal	18.000 EACH	_____.	_____.
0480	SPV.0060 Special 22. Cut-In Hydrant	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0482	SPV.0060 Special 23. Jacking Pit	1.000 EACH	_____.	_____.
0484	SPV.0060 Special 24. Receiving Pit	1.000 EACH	_____.	_____.
0486	SPV.0060 Special 25. Water Main Connection, 6-inch	11.000 EACH	_____.	_____.
0488	SPV.0060 Special 26. Water Main Connection, 8-inch	4.000 EACH	_____.	_____.
0490	SPV.0060 Special 27. Water Main Connection, 12-inch	8.000 EACH	_____.	_____.
0492	SPV.0060 Special 28. Water Main Connection, 16-inch	2.000 EACH	_____.	_____.
0494	SPV.0060 Special 29. Water Main Connection, 20-inch	1.000 EACH	_____.	_____.
0496	SPV.0060 Special 30. HWY 100 Water Main Removal & Reconnect	1.000 EACH	_____.	_____.
0498	SPV.0060 Special 31. Temporary Water Main Connection	2.000 EACH	_____.	_____.
0500	SPV.0060 Special 32. Water Lateral, 1-1/2-inch, Short (0ft-45ft)	3.000 EACH	_____.	_____.
0502	SPV.0060 Special 33. Water Lateral, 1-1/2-inch, Long (45ft-90ft)	9.000 EACH	_____.	_____.
0504	SPV.0060 Special 34. Water Lateral, 2-inch, Short (0ft-45ft)	9.000 EACH	_____.	_____.
0506	SPV.0060 Special 35. Water Lateral, 2-inch, Long (45ft-90ft)	4.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0508	SPV.0060 Special 36. Permanent Air Release Assembly	2.000 EACH	_____.	_____.
0510	SPV.0060 Special 37. Valve Box Removal	52.000 EACH	_____.	_____.
0512	SPV.0060 Special 38. Valve and Valve Manhole Removal	9.000 EACH	_____.	_____.
0514	SPV.0060 Special 39. Water Main Abandonment, 6-inch	11.000 EACH	_____.	_____.
0516	SPV.0060 Special 40. Water Main Abandonment, 8-inch	7.000 EACH	_____.	_____.
0518	SPV.0060 Special 41. Water Main Abandonment, 12-inch	2.000 EACH	_____.	_____.
0520	SPV.0060 Special 42. Water Main Abandonment, 16-inch	7.000 EACH	_____.	_____.
0522	SPV.0060 Special 43. Water Main Abandonment, 20-inch	16.000 EACH	_____.	_____.
0524	SPV.0060 Special 44. Pull Boxes, 17x30x18-Inch	18.000 EACH	_____.	_____.
0526	SPV.0060 Special 45. Temporary Lighting	1.000 EACH	_____.	_____.
0528	SPV.0060 Special 46. Lighting Control Cabinet Modified	1.000 EACH	_____.	_____.
0530	SPV.0060 Special 47. 28-Foot Aluminum Light Pole	35.000 EACH	_____.	_____.
0532	SPV.0060 Special 48. LED Luminaire	40.000 EACH	_____.	_____.
0534	SPV.0060 Special 49. Glare Shields House Side	15.000 EACH	_____.	_____.
0536	SPV.0060 Special 50. Glare Shields Street Side	15.000 EACH	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0538	SPV.0060 Special 51. Rectangular Rapid Flashing Beacon System 100th Street Westbound	1.000 EACH	_____.	_____.
0540	SPV.0060 Special 52. Rectangular Rapid Flashing Beacon System 100th Street Westbound	1.000 EACH	_____.	_____.
0542	SPV.0060 Special 53. Rectangular Flashing Beacon System 100th Street Eastbound	1.000 EACH	_____.	_____.
0544	SPV.0060 Special 54. APS Push Button System, 10 Buttons	1.000 EACH	_____.	_____.
0546	SPV.0060 Special 55. Battery Backup System	1.000 EACH	_____.	_____.
0548	SPV.0060 Special 56. Video Vehicle Detection System, W North Avenue and N 104th Street	1.000 EACH	_____.	_____.
0550	SPV.0060 Special 57. City Furnished Temporary EVP Equipment, W North Avenue and N 104th Street	1.000 EACH	_____.	_____.
0552	SPV.0060 Special 58. Remove and Reinstall EVP Equipment, W North Avenue and N 104th Street	1.000 EACH	_____.	_____.
0554	SPV.0060 Special 59. Round Steel Sign Post System	63.000 EACH	_____.	_____.
0556	SPV.0060 Special 60. Temporary Video Detection, W North Avenue and 104th Street	1.000 EACH	_____.	_____.
0558	SPV.0060 Special 61. Relocate Signal Pole Assembly	2.000 EACH	_____.	_____.
0560	SPV.0060 Special 62. Relocate Monotube Assembly	2.000 EACH	_____.	_____.
0562	SPV.0060 Special 63. Sanitary Sewer Lateral 6-Inch Riser 2-VF or Less	6.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0564	SPV.0060 Special 64. Sanitary Sewer Lateral 6-Inch Riser 5-VF to 2.1-VF	3.000 EACH	_____.	_____.
0566	SPV.0060 Special 65. Sanitary Sewer Lateral 6-Inch Riser 7-VF to 5.1-VF	4.000 EACH	_____.	_____.
0568	SPV.0060 Special 66. Sanitary Manhole Frame and Cover	23.000 EACH	_____.	_____.
0570	SPV.0060 Special 67. Abandoning Sanitary Manhole	6.000 EACH	_____.	_____.
0572	SPV.0060 Special 68. Tree Cell Planting System, Location No 1	1.000 EACH	_____.	_____.
0574	SPV.0060 Special 69. Tree Cell Planting System, Location No 2	1.000 EACH	_____.	_____.
0576	SPV.0060 Special 70. Tree Cell Planting System, Location No 3	1.000 EACH	_____.	_____.
0578	SPV.0060 Special 71. Tree Cell Planting System, Location No 4	1.000 EACH	_____.	_____.
0580	SPV.0060 Special 72. Tree Cell Planting System, Location No 5	1.000 EACH	_____.	_____.
0582	SPV.0060 Special 73. Tree Cell Planting System, Location No 6	1.000 EACH	_____.	_____.
0584	SPV.0060 Special 74. Section Corner Monuments	1.000 EACH	_____.	_____.
0586	SPV.0060 Special 75. Utility Line Opening	30.000 EACH	_____.	_____.
0588	SPV.0090 Special 01. Decorative Fence, 4-FT	108.000 LF	_____.	_____.
0590	SPV.0090 Special 02. Turtle Fence	105.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0592	SPV.0090 Special 03. 6-Inch PVC Storm Sewer	73.000 LF	_____.	_____.
0594	SPV.0090 Special 04. Marking Crosswalk Epoxy Block Style 12-Inch	546.000 LF	_____.	_____.
0596	SPV.0090 Special 05. Water Main, 6-inch	221.000 LF	_____.	_____.
0598	SPV.0090 Special 06. Water Main, 8-inch	994.000 LF	_____.	_____.
0600	SPV.0090 Special 07. Water Main, 12-inch	705.000 LF	_____.	_____.
0602	SPV.0090 Special 08. Water Main, 16-inch	105.000 LF	_____.	_____.
0604	SPV.0090 Special 09. Water Main, 20-inch	163.000 LF	_____.	_____.
0606	SPV.0090 Special 10. Water Main, 24-inch	3,208.000 LF	_____.	_____.
0608	SPV.0090 Special 11. Water Main, 20-inch in 36-inch Steel Casing	172.000 LF	_____.	_____.
0610	SPV.0090 Special 12. Water Lateral, 6-inch	141.000 LF	_____.	_____.
0612	SPV.0090 Special 13. Water Lateral, 8-inch	120.000 LF	_____.	_____.
0614	SPV.0090 Special 14. Water Lateral, 12-inch	133.000 LF	_____.	_____.
0616	SPV.0090 Special 15. Water Main Removal, 6-inch	522.000 LF	_____.	_____.
0618	SPV.0090 Special 16. Water Main Removal, 8-inch	102.000 LF	_____.	_____.
0620	SPV.0090 Special 17. Water Main Removal, 12-inch	137.000 LF	_____.	_____.
0622	SPV.0090 Special 18. Water Main Removal, 16-inch	150.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0624	SPV.0090 Special 19. Water Main Removal, 20-Inch	231.000 LF	_____.	_____.
0626	SPV.0090 Special 20. Water Main Removal, 16-inch in Steel Casing	10.000 LF	_____.	_____.
0628	SPV.0090 Special 21. Abandoning Water Main with Fill, 12-Inch	1,125.000 LF	_____.	_____.
0630	SPV.0090 Special 22. Abandoning Water Main with Fill, 16-Inch	120.000 LF	_____.	_____.
0632	SPV.0090 Special 23. Sanitary Sewer 8-Inch PVC	600.100 LF	_____.	_____.
0634	SPV.0090 Special 24. Sanitary Sewer 12-Inch PVC	546.300 LF	_____.	_____.
0636	SPV.0090 Special 25. Sanitary Sewer 15-Inch PVC	204.500 LF	_____.	_____.
0638	SPV.0090 Special 26. Sanitary Sewer 6-Inch Lateral - Granular Backfill	376.700 LF	_____.	_____.
0640	SPV.0090 Special 27. Abandoning Sanitary Sewer 6-Inch	130.000 LF	_____.	_____.
0642	SPV.0090 Special 28. Abandoning Sanitary Sewer 8-Inch	155.400 LF	_____.	_____.
0644	SPV.0090 Special 29. Abandoning Sanitary Sewer 10-Inch	675.500 LF	_____.	_____.
0646	SPV.0090 Special 30. Abandoning Sanitary Sewer 15-Inch	529.000 LF	_____.	_____.
0648	SPV.0090 Special 37. Steel Pedestrian Railing at Sta 154+60	10.000 LF	_____.	_____.
0650	SPV.0165 Special 01. Wall Modular Block Gravity R-40-733	467.000 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0652	SPV.0165 Special 02. Remove, Salvage and Reinstall Pavers	44.000 SF	_____.	_____.
0654	SPV.0165 Special 03. Remove, Salvage and Reinstall Landscaping Rocks	217.000 SF	_____.	_____.
0656	SPV.0165 Special 04. High Friction Green Surfacing	1,001.000 SF	_____.	_____.
0658	SPV.0165 Special 05. Permeable Pavers	896.000 SF	_____.	_____.
0660	SPV.0180 Special 01. Blended Topsoil	8,069.000 SY	_____.	_____.
0662	SPV.0195 Special 01. Crushed Stone No. 8	494.000 TON	_____.	_____.
0664	SPV.0200 Special 01. Sanitary Manhole 48-Inch	85.000 VF	_____.	_____.
0666	SPV.0200 Special 02. Sanitary Manhole 48-Inch Outside Drop/s	32.400 VF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.



**PLEASE ATTACH ADDENDA HERE**







## Wisconsin Department of Transportation

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February 8, 2023

**Division of Transportation Systems  
Development**

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

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

### **NOTICE TO ALL CONTRACTORS:**

#### **Federal Wage Rate Addendum #01**

#### **Letting of February 14, 2023**

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 02 – 04, 06 – 11, 15, 16, 18 – 24, 26, 29 – 32, 42, and 46 – 53; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in proposal 19; and WI 15 Heavy Davis Bacon Prevailing Wage Rates that are included in proposals 23 and 31. These wage rates are effective for all proposals they are included in in the February 14, 2023 letting. The updated wage rates are dated January 20, 2023, and are effective on or after January 30, 2023.

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: WI20230010 01/20/2023

Superseded General Decision Number: WI20220010

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: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$16.20 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 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

1 01/13/2023  
2 01/20/2023

BRWI0001-002 06/01/2022

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPPEALEAU, AND  
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.96	25.13

-----  
BRWI0002-002 06/01/2022

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 45.87	23.91

-----  
BRWI0002-005 06/01/2022

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...	\$ 38.81	23.94

-----  
BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

-----  
BRWI0004-002 06/01/2022

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.53	26.01

-----  
BRWI0006-002 06/01/2022

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,  
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.26	24.83

-----  
BRWI0007-002 06/01/2022

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.26	25.52
-----		
BRWI0008-002 06/01/2022		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.08	24.42
-----		
BRWI0011-002 06/01/2022		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.00	25.09
-----		
BRWI0019-002 06/01/2022		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.36	25.73
-----		
BRWI0034-002 06/01/2022		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.56	25.22
-----		
CARP0068-011 05/02/2022		

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.....	\$ 41.19	27.05
-----		
CARP0264-003 06/01/2016		

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11
-----		
CARP0310-002 06/05/2022		

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon, Oneida, Shawano, Taylor and Vilas

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96
-----		
CARP0314-001 06/05/2022		

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson,  
Lafayette, Richland, Rock, Sauk and Walworth

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96
-----		
CARP0361-004 05/01/2018		

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43
-----		
CARP0731-002 06/05/2022		

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc  
and Sheboygan

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96
-----		
CARP0804-001 06/05/2022		

Adams, Juneau, Portage and Wood

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96
-----		
CARP0955-002 06/01/2022		

Calumet (western portion of County), Fond Du Lac, Green Lake,  
Marquette, Outagamie and Winnebago

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96
-----		
CARP1056-002 06/05/2022		

	Rates	Fringes
MILLWRIGHT.....	\$ 38.00	26.78
-----		
CARP1074-002 06/01/2022		

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,  
Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIIVER.....	\$ 37.37	25.96

-----  
 CARP1143-002 06/01/2022

Crawford, Jackson, La Crosse, Monroe, Trempealeau and Vernon

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIIVER.....	\$ 37.37	25.96

-----  
 CARP1146-002 06/01/2022

Brown, Door, Florence, Kewaunee, Marinette, Menominee and Shawano

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIIVER.....	\$ 37.37	25.96

-----  
 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 12/25/2022

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, TREMPALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.25	22.34

-----  
 \* ELEC0014-007 05/29/2022

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	\$ 29.63	3%+16.18

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).

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 ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

-----  
 ELEC0158-002 05/30/2021

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
ELECTRICIAN.....	\$ 36.14	29.75%+10.26

-----  
 ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13

-----  
 ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 33.94	21.80
Electrical contracts under \$180,000.....	\$ 31.75	21.73

-----  
 ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%

-----  
 ELEC0388-002 05/30/2021

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:.....	\$ 36.22	26%+11.24
-----		
ELEC0430-002 06/01/2022		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35
-----		
* ELEC0494-005 06/01/2022		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 46.38	25.86
-----		
ELEC0494-006 06/01/2021		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74
-----		
ELEC0494-013 06/01/2021		

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.....	\$ 22.39	18.80
Technician.....	\$ 32.49	20.26

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

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 ELEC0577-003 06/01/2021

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:.....	\$ 35.66	29.50%+10.00

-----  
 ELEC0890-003 06/01/2021

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17

-----  
 ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 47.53	21.43
(2) Heavy Equipment Operator.....	\$ 42.78	19.80
(3) Equipment Operator.....	\$ 38.02	18.40
(4) Heavy Groundman Driver..	\$ 33.27	16.88
(5) Light Groundman Driver..	\$ 30.89	16.11
(6) Groundsman.....	\$ 26.14	14.60

-----  
 ENGI0139-005 06/01/2022

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.27	25.95
Group 2.....	\$ 42.77	25.95
Group 3.....	\$ 42.27	25.95
Group 4.....	\$ 42.01	25.95
Group 5.....	\$ 41.72	25.95
Group 6.....	\$ 35.82	25.95

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, day light machine

GROUP 6: Off-road material hauler with or without ejector.

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IRON0008-002 06/13/2022

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,  
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO  
COUNTIES:

Rates Fringes

IRONWORKER.....\$ 41.00 28.95

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

-----  
IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

Rates Fringes

IRONWORKER.....\$ 40.57 28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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IRON0383-001 06/05/2022

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.....\$ 39.00 28.58

-----  
IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

Rates Fringes

IRONWORKER.....\$ 41.37 44.41

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IRON0512-008 05/01/2022

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU COUNTIES

Rates Fringes

IRONWORKER.....\$ 41.00 33.11

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IRON0512-021 05/01/2022

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

Rates Fringes

IRONWORKER.....\$ 36.94 33.11

LAB00113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.65	23.09
Group 2.....	\$ 32.80	23.09
Group 3.....	\$ 33.00	23.09
Group 4.....	\$ 33.15	23.09
Group 5.....	\$ 33.30	23.09
Group 6.....	\$ 29.14	23.09

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

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LAB00113-003 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.90	23.09
Group 2.....	\$ 32.00	23.09
Group 3.....	\$ 32.05	23.09
Group 4.....	\$ 32.25	23.09
Group 5.....	\$ 32.10	23.09
Group 6.....	\$ 28.99	23.09

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

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LAB00113-011 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.71	23.09
Group 2.....	\$ 31.86	23.09
Group 3.....	\$ 32.06	23.09
Group 4.....	\$ 32.03	23.09
Group 5.....	\$ 32.36	23.09
Group 6.....	\$ 28.85	23.09

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

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LAB00140-002 06/01/2022

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.....	\$ 36.42	18.68
Group 2.....	\$ 36.52	18.68
Group 3.....	\$ 36.57	18.68
Group 4.....	\$ 36.77	18.68
Group 5.....	\$ 36.62	18.68
Group 6.....	\$ 33.05	18.68

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

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LAB00464-003 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 36.70	18.68
Group 2.....	\$ 36.80	18.68
Group 3.....	\$ 36.85	18.68
Group 4.....	\$ 37.05	18.68
Group 5.....	\$ 36.90	18.68
Group 6.....	\$ 33.05	18.68

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

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PAIN0106-008 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 33.99	22.70
Spray, Sandblast, Steel....	\$ 34.59	22.70
Repaint:		
Brush, Roller.....	\$ 33.09	22.70
Spray, Sandblast, Steel....	\$ 32.49	22.70

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PAIN0108-002 06/01/2022

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 39.60	21.79
Spray & Sandblast.....	\$ 40.60	21.79

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PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,  
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
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 06/01/2022

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 38.15	24.80
Brush.....	\$ 37.40	24.80
Spray & Sandblast.....	\$ 38.15	24.80

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PAIN0802-002 06/01/2021

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,  
 ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 29.98	18.78

PREMIUM PAY:  
 Structural Steel, Spray, Bridges = \$1.00 additional per  
 hour.

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 PAIN0802-003 06/01/2022

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.....	\$ 34.68	18.94

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 PAIN0934-001 06/01/2022

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 36.70	24.69
Spray.....	\$ 37.70	24.69
Structural Steel.....	\$ 36.85	24.69

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 PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 26.71	14.38

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 PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 42.06	20.87
Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

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

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TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 32.57	23.81
3 or more Axles; Euclids, Dumpton & Articulated, Truck Mechanic.....	\$ 32.72	23.81
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WELL DRILLER.....	\$ 16.52	3.70
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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 <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

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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.

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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 National Office because National Office has 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 DECISIO"



"General Decision Number: WI20230008 01/20/2023

Superseded General Decision Number: WI20220008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 14026 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$16.20 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 2023.</li></ul>
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 13658 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.</li></ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023

BRWI0001-002 06/01/2022

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.96	25.13

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BRWI0002-002 06/01/2022

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 45.87	23.91

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BRWI0002-005 06/01/2022

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...	\$ 38.81	23.94

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BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0004-002 06/01/2022

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.53	26.01

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BRWI0006-002 06/01/2022

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.26	24.83

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BRWI0007-002 06/01/2022

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.26	25.52
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BRWI0008-002 06/01/2022		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.08	24.42
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BRWI0009-001 06/01/2022		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,  
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.00	25.09
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BRWI0011-002 06/01/2022		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.00	25.09
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BRWI0013-002 06/01/2022		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.56	25.22
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BRWI0019-002 06/01/2022		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,  
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.36	25.73
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BRWI0021-002 06/01/2022		

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.49	26.27
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BRWI0034-002 06/01/2022		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.56	25.22
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CARP0068-011 05/02/2022		

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.....	\$ 41.19	27.05

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CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

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CARP0310-002 06/05/2022

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon, Oneida, Shawano, Taylor and Vilas

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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CARP0314-001 06/05/2022

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk and Walworth

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

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CARP0731-002 06/05/2022

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc and Sheboygan

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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CARP0804-001 06/05/2022

Adams, Juneau, Portage and Wood

Rates	Fringes
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CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

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 CARP0955-002 06/01/2022

Calumet (western portion of County), Fond Du Lac, Green Lake,  
 Marquette, Outagamie and Winnebago

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

-----  
 CARP1056-002 06/05/2022

	Rates	Fringes
MILLWRIGHT.....	\$ 38.00	26.78

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 CARP1074-002 06/01/2022

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,  
 Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

-----  
 CARP1143-002 06/01/2022

Crawford, Jackson, La Crosse, Monroe, Trempealeau and Vernon

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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 CARP1146-002 06/01/2022

Brown, Door, Florence, Kewaunee, Marinette, Menominee and  
 Shawano

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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 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

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 33.58	21.53
Zone B.....	\$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

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 \* ELEC0014-002 12/25/2022

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:.....	\$ 39.25	22.34

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 ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

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 ELEC0158-002 05/30/2021

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
ELECTRICIAN.....	\$ 36.14	29.75%+10.26

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 ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and  
 Emmet Townships), GREEN, LAKE (except Townships of Berlin,  
 Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of  
 Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK  
 COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13

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 ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 33.94	21.80
Electrical contracts under \$180,000.....	\$ 31.75	21.73
-----		
ELEC0242-005 05/30/2021		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%
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ELEC0388-002 05/30/2021		

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:.....	\$ 36.22	26%+11.24
-----		
ELEC0430-002 06/01/2022		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35
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* ELEC0494-005 06/01/2022		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 46.38	25.86
-----		
ELEC0494-006 06/01/2021		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74
-----		
ELEC0577-003 06/01/2021		

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:.....	\$ 35.66	29.50%+10.00
-----		
ELEC0890-003 06/01/2021		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17
-----		
ENGI0139-003 06/06/2022		

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 45.22	24.85
Group 2.....	\$ 43.97	24.85
Group 3.....	\$ 41.57	24.85
Group 4.....	\$ 41.04	24.85
Group 5.....	\$ 38.97	24.85
Group 6.....	\$ 37.44	24.85

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

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 ENGI0139-007 06/05/2022

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.54	24.85
Group 2.....	\$ 42.76	24.85
Group 3.....	\$ 41.81	24.85
Group 4.....	\$ 40.76	24.85
Group 5.....	\$ 39.36	24.85

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).

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IRON0008-002 06/13/2022

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.00	28.95

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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IRON0383-001 06/05/2022

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.....	\$ 39.00	28.58

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IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.37	44.41

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IRON0512-008 05/01/2022

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 41.00	33.11

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IRON0512-021 05/01/2022

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.94	33.11

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LAB00113-004 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 17.62	21.98
Group 2.....	\$ 19.89	21.98
Group 3.....	\$ 23.43	21.98
Group 4.....	\$ 32.80	21.98
Group 5.....	\$ 32.94	21.98
Group 6.....	\$ 33.00	21.98
Group 7.....	\$ 36.85	21.98
Group 8.....	\$ 39.67	21.98
Group 9.....	\$ 40.31	21.98

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

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LAB00113-005 06/06/2022

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 24.29	21.98
Group 2.....	\$ 30.22	21.98
Group 3.....	\$ 34.42	21.98
Group 4.....	\$ 36.19	21.98

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

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LAB00113-008 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 23.43	21.98
Group 2.....	\$ 32.94	21.98
Group 3.....	\$ 33.00	21.98
Group 4.....	\$ 36.98	21.98
Group 5.....	\$ 36.99	21.98
Group 6.....	\$ 39.67	21.98
Group 7.....	\$ 40.31	21.98

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

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\* LAB00113-009 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 23.43	21.98
Group 2.....	\$ 32.94	21.98
Group 3.....	\$ 37.39	21.98
Group 4.....	\$ 38.19	21.98
Group 5.....	\$ 38.31	21.98
Group 6.....	\$ 41.01	21.98
Group 7.....	\$ 41.63	21.98

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.

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LAB00140-005 06/06/2022

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.....	\$ 31.48	18.68
Group 2.....	\$ 33.33	18.68
Group 3.....	\$ 33.53	18.68
Group 4.....	\$ 34.28	18.68

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 Lutean; 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

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LAB00464-002 06/06/2022

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.38	18.68
Group 2.....	\$ 33.58	18.68
Group 3.....	\$ 33.78	18.68
Group 4.....	\$ 34.53	18.68

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

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LAB01091-010 06/06/2022

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 31.17	18.68
Group 2.....	\$ 33.23	18.68
Group 3.....	\$ 33.43	18.68
Group 4.....	\$ 34.18	18.68

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

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 PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 42.06	20.87
Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

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

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 TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	\$ 32.72	23.81
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WELL DRILLER.....	\$ 16.52	3.70
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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 <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

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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.

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#### 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 National Office because National Office has 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 DECISIO"

"General Decision Number: WI20230015 01/20/2023

Superseded General Decision Number: WI20220015

State: Wisconsin

Construction Type: Heavy

Counties: Wisconsin Statewide.

HEAVY CONSTRUCTION PROJECTS (Excluding Tunnel, Sewer, and Water Lines).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 14026 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$16.20 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 2023.</li></ul>
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 13658 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.</li></ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023



BOIL0107-001 01/01/2021

	Rates	Fringes
BOILERMAKER		
Boilermaker.....	\$ 39.52	31.50
Small Boiler Repair (under 25,000 lbs/hr).....	\$ 26.91	16.00

-----  
BRWI0001-002 06/01/2022

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPPEALEAU, AND  
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.96	25.13

-----  
BRWI0002-002 06/01/2022

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 45.87	23.91

-----  
BRWI0002-005 06/01/2022

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...	\$ 38.81	23.94

-----  
BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0004-002 06/01/2022

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.53	26.01

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BRWI0006-002 06/01/2022

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,  
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.26	24.83
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BRWI0007-002 06/01/2022		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.26	25.52
-----		
BRWI0008-002 06/01/2022		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.08	24.42
-----		
BRWI0009-001 06/01/2022		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.00	25.09
-----		
BRWI0011-002 06/01/2022		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.00	25.09
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BRWI0013-002 06/01/2022		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.56	25.22
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BRWI0019-002 06/01/2022		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.36	25.73
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BRWI0021-002 06/01/2022		

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.49	26.27
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BRWI0034-002 06/01/2022

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.56	25.22

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CARP0068-011 05/02/2022

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.....	\$ 41.19	27.05

-----  
CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

-----  
CARP0310-002 06/05/2022

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon, Oneida, Shawano, Taylor and Vilas

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

-----  
CARP0314-001 06/05/2022

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk and Walworth

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

-----  
CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

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CARP0731-002 06/05/2022

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc and Sheboygan

Rates Fringes

CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

-----  
CARP0804-001 06/05/2022

Adams, Juneau, Portage and Wood

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
Piledriver.....	\$ 37.37	25.96

-----  
CARP0955-002 06/01/2022

Calumet (western portion of County), Fond Du Lac, Green Lake,  
Marquette, Outagamie and Winnebago

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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CARP1056-002 06/05/2022

	Rates	Fringes
MILLWRIGHT.....	\$ 38.00	26.78

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CARP1074-002 06/01/2022

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,  
Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

-----  
CARP1143-002 06/01/2022

Crawford, Jackson, La Crosse, Monroe, Trempealeau and Vernon

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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CARP1146-002 06/01/2022

Brown, Door, Florence, Kewaunee, Marinette, Menominee and  
Shawano

	Rates	Fringes
CARPENTER.....	\$ 36.80	26.12
PILEDRIVER.....	\$ 37.37	25.96

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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

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 CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 33.58	21.53
Zone B.....	\$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

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 \* ELEC0014-002 12/25/2022

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:.....	\$ 39.25	22.34

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 \* ELEC0014-007 05/29/2022

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	\$ 29.63	3%+16.18

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).

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 ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

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 ELEC0158-002 05/30/2021

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
ELECTRICIAN.....	\$ 36.14	29.75%+10.26
-----		
ELEC0159-003 05/30/2021		

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and  
 Emmet Townships), GREEN, LAKE (except Townships of Berlin,  
 Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of  
 Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK  
 COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13
-----		
ELEC0219-004 06/01/2019		

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern,  
 Florence and Homestead) AND MARINETTE COUNTY (Township of  
 Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 33.94	21.80
Electrical contracts under		
\$180,000.....	\$ 31.75	21.73
-----		
ELEC0242-005 05/30/2021		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%
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ELEC0388-002 05/30/2021		

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:.....	\$ 36.22	26%+11.24
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ELEC0430-002 06/01/2022		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35

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\* ELEC0494-005 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 46.38	25.86

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ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74

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ELEC0494-013 06/01/2021

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.....	\$ 22.39	18.80
Technician.....	\$ 32.49	20.26

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

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ELEC0577-003 06/01/2021

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:.....	\$ 35.66	29.50%+10.00
-----		
ELEC0890-003 06/01/2021		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,  
 RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17
-----		
ELEC0953-001 06/02/2019		

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 47.53	21.43
(2) Heavy Equipment Operator.....	\$ 42.78	19.80
(3) Equipment Operator.....	\$ 38.02	18.40
(4) Heavy Groundman Driver..	\$ 33.27	16.88
(5) Light Groundman Driver..	\$ 30.89	16.11
(6) Groundsman.....	\$ 26.14	14.60
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ENGI0139-001 06/01/2022

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA  
 COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 49.01	25.30
Group 2.....	\$ 48.51	25.30
Group 3.....	\$ 48.01	25.30
Group 4.....	\$ 47.17	25.30
Group 5.....	\$ 43.39	25.30
Group 6.....	\$ 38.24	25.30

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, leadsand/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; Gantrys (under 20,000 lbs); Tencher (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

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ENGI0139-003 06/06/2022

REMAINING COUNTIES

Rates

Fringes

Power Equipment Operator

Group 1.....	\$ 45.22	24.85
Group 2.....	\$ 43.97	24.85
Group 3.....	\$ 41.57	24.85
Group 4.....	\$ 41.04	24.85
Group 5.....	\$ 38.97	24.85
Group 6.....	\$ 37.44	24.85

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

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 IRON0008-002 06/13/2022

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 41.00	28.95

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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 IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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 IRON0383-001 06/05/2022

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.....	\$ 39.00	28.58

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 IRON0512-008 05/01/2022

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU COUNTIES

	Rates	Fringes
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IRONWORKER.....\$ 41.00 33.11

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IRON0512-021 05/01/2022

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,  
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

Rates Fringes

IRONWORKER.....\$ 36.94 33.11

-----  
LAB00113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

Rates Fringes

LABORER

Group 1.....\$ 32.65 23.09  
Group 2.....\$ 32.80 23.09  
Group 3.....\$ 33.00 23.09  
Group 4.....\$ 33.15 23.09  
Group 5.....\$ 33.30 23.09  
Group 6.....\$ 29.14 23.09

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 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

Rates Fringes

LABORER

Group 1.....\$ 31.90 23.09  
Group 2.....\$ 32.00 23.09  
Group 3.....\$ 32.05 23.09  
Group 4.....\$ 32.25 23.09  
Group 5.....\$ 32.10 23.09  
Group 6.....\$ 28.99 23.09

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 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.71	23.09
Group 2.....	\$ 31.86	23.09
Group 3.....	\$ 32.06	23.09
Group 4.....	\$ 32.03	23.09
Group 5.....	\$ 32.36	23.09
Group 6.....	\$ 28.85	23.09

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 06/01/2022

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.....	\$ 36.42	18.68
Group 2.....	\$ 36.52	18.68
Group 3.....	\$ 36.57	18.68
Group 4.....	\$ 36.77	18.68
Group 5.....	\$ 36.62	18.68
Group 6.....	\$ 33.05	18.68

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 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 36.70	18.68
Group 2.....	\$ 36.80	18.68
Group 3.....	\$ 36.85	18.68
Group 4.....	\$ 37.05	18.68
Group 5.....	\$ 36.90	18.68
Group 6.....	\$ 33.05	18.68

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 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 33.99	22.70
Spray, Sandblast, Steel....	\$ 34.59	22.70
Repaint:		
Brush, Roller.....	\$ 33.09	22.70
Spray, Sandblast, Steel....	\$ 32.49	22.70

-----  
 PAIN0108-002 06/01/2022

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 39.60	21.79
Spray & Sandblast.....	\$ 40.60	21.79

-----  
 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

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PAIN0781-002 06/01/2022

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 38.15	24.80
Brush.....	\$ 37.40	24.80
Spray & Sandblast.....	\$ 38.15	24.80

-----  
PAIN0802-002 06/01/2021

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,  
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 29.98	18.78

PREMIUM PAY:  
Structural Steel, Spray, Bridges = \$1.00 additional per  
hour.

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PAIN0802-003 06/01/2022

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.....	\$ 34.68	18.94

-----  
PAIN0934-001 06/01/2022

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 36.70	24.69
Spray.....	\$ 37.70	24.69
Structural Steel.....	\$ 36.85	24.69

-----  
PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 26.71	14.38

-----  
PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 42.06	20.87



Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

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

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 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
PLUMBER/PIPEFITTER.....	\$ 33.33	24.48
-----		
PLUM0118-002 06/01/2022		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
Plumber and Steamfitter.....	\$ 47.50	25.92
-----		
PLUM0400-003 05/29/2022		

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.....	\$ 46.37	20.96
-----		
PLUM0434-002 05/30/2021		

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, TREMPPEALEAU, VERNON, VILAS, AND WOOD COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 44.65	20.72
-----		
PLUM0601-003 06/01/2022		

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, MILWAUKEE, OZAUKEE, ROCK, WASHINGTON AND WAUKESHA COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 50.00	28.93
-----		
PLUM0601-009 06/01/2022		

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 52.06	26.86
-----		
TEAM0039-002 06/01/2021		

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axle Trucks.....	\$ 32.57	23.81
3 or more axles; Euclids or Dumptor, Articulated Truck, Mechanic.....	\$ 32.72	23.81
-----		
SUWI2011-001 11/16/2011		

	Rates	Fringes
WELL DRILLER.....	\$ 16.52	
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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 <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

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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.

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#### 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 National Office because National Office has 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 DECISIO"





## Wisconsin Department of Transportation

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January 30, 2023

**Division of Transportation Systems  
Development**

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

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

### **NOTICE TO ALL CONTRACTORS:**

#### **ASP-5 Addendum #01**

#### **Letting of February 14, 2023**

Attached is a copy of the revised ASP-5 Fuel Cost Adjustment that are included in proposals 09, 15, 19, 22, 51, and 53. This will be effective with the February 14, 2023 letting.

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

## ADDITIONAL SPECIAL PROVISIONS 5 FUEL COST ADJUSTMENT

### A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

### B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09



**C Fuel Index**

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is \$3.20 per gallon.

**D Computing the Fuel Cost Adjustment**

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

- (1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.
- (2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.
- (3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.
- (4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \frac{CFI}{BFI} - 1 \times Q \times BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

**E Payment**

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.





# Wisconsin Department of Transportation

## Division of Transportation Systems Development

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

February 3, 2023

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

### NOTICE TO ALL CONTRACTORS:

**Proposal #19: 2135-04-71, WISC 2023224**  
**C Wauwatosa W North Avenue**  
**Mayfair Road to Met-to-Wee Ln**  
**Local Street**  
**Milwaukee County**

**2135-04-72**  
**C Wauwatosa W North Avenue**  
**Mayfair Road to Met-to-Wee Ln**  
**Local Street**  
**Milwaukee County**

### Letting of February 14, 2023

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

#### Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Quantity Added	Proposal Total After Addendum
643.5000	Traffic Control	EA	0	1	1

#### Schedule of Items

Attached, dated February 3, 2023, are the revised Schedule of Items Page 19.

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

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

END OF ADDENDUM



Proposal Schedule of Items

Proposal ID: 20230214019 Project(s): 2135-04-71, 2135-04-72

Federal ID(s): WISC 2023224, N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0652	SPV.0165 Special 02. Remove, Salvage and Reinstall Pavers	44.000 SF	_____.	_____.
0654	SPV.0165 Special 03. Remove, Salvage and Reinstall Landscaping Rocks	217.000 SF	_____.	_____.
0656	SPV.0165 Special 04. High Friction Green Surfacing	1,001.000 SF	_____.	_____.
0658	SPV.0165 Special 05. Permeable Pavers	896.000 SF	_____.	_____.
0660	SPV.0180 Special 01. Blended Topsoil	8,069.000 SY	_____.	_____.
0662	SPV.0195 Special 01. Crushed Stone No. 8	494.000 TON	_____.	_____.
0664	SPV.0200 Special 01. Sanitary Manhole 48-Inch	85.000 VF	_____.	_____.
0666	SPV.0200 Special 02. Sanitary Manhole 48-Inch Outside Drop/s	32.400 VF	_____.	_____.
0668	643.5000 Traffic Control	1.000 EACH	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.



# Wisconsin Department of Transportation

February 9, 2023

## Division of Transportation Systems Development

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

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

### NOTICE TO ALL CONTRACTORS:

**Proposal #19: 2135-04-71, WISC 2023224**  
**C Wauwatosa W North Avenue**  
**Mayfair Road to Met-to-Wee Ln**  
**Local Street**  
**Milwaukee County**

**2135-04-72**  
**C Wauwatosa W North Avenue**  
**Mayfair Road to Met-to-Wee Ln**  
**Local Street**  
**Milwaukee County**

### Letting of February 14, 2023

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

#### Special Provisions:

Revised Special Provisions	
Article No.	Description
78	Sanitary Sewer Lateral 6-Inch Riser 2 V.F. or Less, SPV.0060.63; Sanitary Sewer Lateral 6-Inch Riser 5 V.F. to 2.1 V.F, SPV.0060.64; Sanitary Sewer Lateral 6-Inch Riser 7-feet to 5.1 V.F., SPV.0060.65
88	Water Main, 6-inch, Item SPV.0090.05; Water Main, 8-inch, Item SPV.0090.06; Water Main, 12-inch, Item SPV.0090.07; Water Main, 16-inch, Item SPV.0090.08 Water Main, 20-inch, Item SPV.0090.09; Water Main, 24-inch, Item SPV.0090.10
95	Abandoning Sanitary Sewer 6-Inch, SPC.0090.27; Abandoning Sanitary Sewer 8-Inch, SPV.0090.28; Abandoning Sanitary Sewer 10-Inch, SPV.0090.29; Abandoning Sanitary Sewer 15-Inch, SPV.0090.30
104	Sanitary Manhole 48-Inch, SPV.0200.01
105	Sanitary Manhole 48-Inch Outside Drop/s, SPV.0200.02

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

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

**ADDENDUM NO. 02**  
**2135-04-71 & 2135-04-72**  
**February 9, 2023**

**Special Provisions**

- 78. Sanitary Sewer Lateral 6-Inch Riser 2 V.F. or Less, Item SPV.0060.63;  
Sanitary Sewer Lateral 6-Inch Riser 5 V.F. to 2.1 V.F., Item SPV.0060.64;  
Sanitary Sewer Lateral 6-Inch Riser 7-feet to 5.1 V.F., Item SPV.0060.65.**

*Replace entire section titled C.2.1 Bedding, Cover, Foundation and Slurry Backfill Material with the following:*

**C.2.1 Bedding, Cover, Foundation and Granular Backfill Material**

Furnish granular backfill according to the pertinent requirements of standard spec 209 except as hereinafter modified. Use aggregates that conform to standard spec 501 for Grade A Concrete. Weigh aggregates at a batch plant suitable for batching concrete masonry. Mix and deliver to the project site using a truck mixer. Add enough water to enable the mixture to flow readily. Granular backfill shall meet the material and construction requirements of section 8.43.4 of the Standard Specifications for Sewer and Water.

- 88. Water Main, 6-inch, Item SPV.0090.05; Water Main, 8-inch, Item SPV.0090.06; Water Main, 12-inch, Item SPV.0090.07; Water Main, 16-inch, Item SPV.0090.08 Water Main, 20-inch, Item SPV.0090.09; Water Main, 24-inch, Item SPV.0090.10**

*Replace entire section titled A Description with the following:*

**A Description**

This work includes installing PVC water main at locations indicated in the drawings, conforming to the SSSW and as hereinafter provided.

*Replace paragraphs one and two under section titled B.1 General with the following:*

PVC Pipe shall be C-900 DR18 or less in conformance with AWWA C-900, ASTM D-3139, and ASTM F-477. Hydrant leads shall be C-900 DR14.

All pipe joints shall be restrained.

*Add the following section:*

**B.8 Pipe Restraints**

Joints can be restrained internally or externally, of same pressure class as pipe.

The internal restraining system shall utilize an integral elastomer bell and spigot end designed for a rubber internal restraint gasket push-on-joint or approved equal. The internal restraint shall conform to ASTM D3139, ASTM D395, ASTM D412, ASTM D471, ASTM D573, ASTM D883, ASTM D1149, ASTM D1229, ASTM D1349, ASTM D1414, ASTM D1415, ASTM D1566, and ASTM F913. Gaskets shall be SBR with stainless steel locking segments. Installation shall be in accordance with AWWA C605.

The external restraining system shall utilize a coupled pipe system designed for two exterior O-ring or profile rubber gaskets with a nylon splined secured PVC coupler, or approved equal. Gasket shall be SBR. Installation shall be in accordance with AWWA C605.

Mechanical / Bolt-on couplers are not allowed.

*Replace the last paragraph in section titled **E Payment** with the following:*

Payment is full compensation for furnishing all materials unless denoted otherwise in the article City Furnished Water Main Materials; surveying; fittings, pipe joint restraints, corrosion protection, insulation, pressure testing, flushing and disinfection, tracer wire, concrete buttresses, shoring, temporary piling, dewatering, and for excavating, backfilling, and compaction.

- 95. Abandoning Sanitary Sewer 6-Inch, Item SPV. 0090.27;  
Abandoning Sanitary Sewer 8-Inch, Item SPV. 0090.28;  
Abandoning Sanitary Sewer 10-Inch, Item SPV. 0090.29;  
Abandoning Sanitary Sewer 15-Inch, Item SPV. 0090.30.**

*Delete entire section titled **B.3 Backfill Slurry**.*

*Replace the last paragraph under section titled **E Payment** with the following:*

Payment is full compensation for providing all materials including all excavating; for surveying; for bulkheading and abandoning existing sanitary sewer with cellular concrete; and for providing and maintaining all necessary bypass pumping for abandonment.

- 104. Sanitary Manhole 48-Inch, SPV.0200.01**

*Replace entire section titled **B.5 Backfill Slurry** with following:*

**B.5 Granular Backfill**

Granular backfill shall meet the material and construction requirements of section 8.43.4 of the SSSW.

*Replace the last paragraph under section titled **E Payment** with the following:*

Payment is full compensation for furnishing and installing all materials including pre-cast manhole base, riser, bench, cone section; for survey; for installing gaskets, joint seals, steps, bedding material, backfill material, for furnishing all excavation, dewatering, sheathing and shoring, forming foundation, and masonry work; for making sanitary sewer connections; for making lateral connections: for backfilling including mechanical compaction and compaction testing; for removing sheeting and shoring; for disposal of all surplus or waste material; and for clean-up. The removal of existing sanitary sewer pipe and manholes from within the trench of replacement of sanitary sewer manholes will not be paid separately but shall be considered incidental to the item.

- 105. Sanitary Manhole 48-Inch Outside Drop/s, SPV.0200.02**

*Replace entire section titled **B.6 Backfill Slurry** with following:*

**B.6 Granular Backfill**

Granular backfill shall meet the material and construction requirements of section 8.43.4 of the SSSW.

*Replace the last paragraph under section titled **E Payment** with the following:*

Payment is full compensation for furnishing and installing all materials including pre-cast manhole base, riser, bench, cone section, exterior drop pipe, frames, grates or lids, and chimney adjustment rings; for survey; for installing gaskets, joint seals, steps, bedding material, backfill material; for furnishing all

excavation, dewatering, sheathing and shoring, forming foundation, and masonry work; for making sanitary sewer connections; for making lateral connections: for backfilling including mechanical compaction and compaction testing; for removing sheeting and shoring; for disposal of all surplus or waste material; and for clean-up. The removal of existing sanitary sewer pipe and manholes from within the trench of replacement of sanitary sewer manholes will not be paid separately but shall be considered incidental to the item.

END OF ADDENDUM