

HIGHWAY WORK PROPOSAL

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

Proposal Number: **016**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Waukesha	2783-05-70	WISC 2021034	Calhoun Rd; Cth M To Sth 190	LOC STR
Waukesha	2783-05-71	N/A	Calhoun Rd; Cth M To Sth 190	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: \$420,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: December 8, 2020 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time November 19, 2021	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 15%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

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

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work: Grade, Sanitary Sewer, Storm Sewer, Water Main, Culvert Pipe, Base, Concrete Pavement, Asphalt Pavement, Curb & Gutter, Sidewalk, Traffic Wall Modular Block Gravity Landscape, Signals, Signing, Pavement Marking, Structure B-67-380	For Department Use Only
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

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

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

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

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

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

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

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

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

B Submitting Electronic Bids

B.1 On the Internet

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

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

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

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

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

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

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

C Waiver of Electronic Submittal

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

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 2783-05-70 and 2783-05-71, Calhoun Road, CTH M to STH 190, Waukesha County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2021 Edition, as published by the department, and these special provisions.

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

100-005 (20200629)

2. Scope of Work.

The work under this contract shall consist of excavation common, marsh excavation, base aggregate, HMA pavement, a box culvert, curb and gutter, storm sewer, pavement marking, permanent signing, traffic signals, erosion control, 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 ten calendar days after the engineer issues a written notice to do so.

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

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

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

Conform to the schedule of operations for the construction staging as shown in the plan. Do not move operations within the proposed construction staging unless modifications to the staging and schedule are approved in writing by the engineer.

Submit all traffic control change requests to the engineer at least 3 days prior to an actual traffic control change. A request does not constitute approval.

The contractor is advised that there may be multiple mobilizations for such items as traffic control, temporary pavement marking, pavement marking, erosion control, topsoil, HMA pavement, restoration items, drainage items, and other incidental items required to complete the work under this contract. No additional payment will be made by the department for said mobilizations.

Comply with all local ordinances that apply to work operations, including those pertaining to working during nighttime work hours. Any ordinance variance issued by the municipality or required permits shall be furnished to the engineer, by the contractor, in writing 3 working days before performing such work.

Marsh Excavation Work

Close Calhoun Road to local and through traffic to complete marsh excavation and backfill. Do not close Calhoun Road to local and through traffic for marsh excavation at the same time as either of the Soo Line Railroad crossings are closed. Maintain local and emergency services access to Pheasant Drive and driveways located between the railroad crossings at all times.

Stream Relocation for Unnamed Tributary to Fox River and B-67-380 Construction

Maintain local traffic and emergency services access over B-67-380 and the temporary culvert pipes at all times.

Disturbance to the Unnamed Tributary to the Fox River for stream relocation work, installation and removal of temporary culvert pipes, installation of driveway culvert pipes, and for construction of B-67-380 shall be limited to 120 consecutive calendar days. Fish spawning restrictions do not apply.

Stream Relocation for Underwood Creek

Disturbance to Underwood Creek for stream relocation work, marsh excavation and backfill, floodplain compensation areas, and construction of the cross culvert at Station 255+09 shall be limited to 90 consecutive calendar days. Fish spawning restrictions do not apply.

Dewatering for Pond at Station 292+61'NB' RT

Complete all grading, place clay liner, and install the culvert pipe adjacent to the existing pond at Station 292+61'NB' RT within 3 consecutive calendar days of dewatering the pond to complete the work. Conform the requirements for By-Pass Pumping and Dewatering as specified in the contract.

Soo Line Railroad (CP) Work

At the beginning of construction of the Soo Line Railroad (CP) crossings, close Calhoun Road to local and through traffic at the railroad crossing, estimated at 14 calendar days at each crossing. Do not close both railroad crossings at the same time, and do not close either of the railroad crossings at the same time as Calhoun Road is closed for marsh excavation. Maintain local and emergency services access to Pheasant Drive and driveways located between the railroad crossings at all times. Coordinate the railroad crossing work directly with the Soo Line Railroad by contacting Brian Osborne, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail: brian_osborne@cpr.ca prior to the preconstruction conference.

Interim Completion of Work

At the beginning of Stage 1 operations, close Calhoun Road to through traffic for a maximum of 180 calendar days. Do not reopen until completing the following work on the southbound lanes of Calhoun Road between Morningview Court and St James Road, on the northbound and southbound lanes of Calhoun Road from the south project limits to Morningview Court, and on the northbound and southbound lanes of Calhoun Road from St James Road to the north project limits: marsh excavation and backfill, grading, storm sewer, base aggregate dense, curb and gutter, HMA pavement (all layers), and temporary and permanent signing and pavement markings.

If the contractor fails to complete the work necessary to reopen Calhoun Road to one northbound lane and one southbound lane within 180 calendar days, the department will assess the contractor \$5,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 180 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Northern Long-eared Bat (*Myotis septentrionalis*)

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

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

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

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

4. Traffic.

Residential and Commercial Property Access

Do not remove from service residential or commercial driveways without sufficient notice given to tenants and/or property owners. Sufficient notice is defined as contacting 48 hours prior to removing a driveway from service. Work on the approach of driveways that are wider than 20 feet shall be staged to maintain access to the residential or commercial properties that have only one access.

For Driveway 219+63'NB' and Driveway 230+90'NB', construct the driveways and culvert pipes in stages to maintain access to the residences at all times. Access shall be a minimum of 10 feet wide on a gravel surface, existing pavement, new asphaltic surface, or combination thereof. Complete work on Driveway 219+63'NB' and Driveway 230+90'NB' within 7 consecutive calendar days at each driveway.

If the contractor wishes to make other arrangements regarding driveway maintenance, these arrangements shall be agreed to in writing and signed by the prime contractor, engineer, emergency services, and property owner of the affected driveway.

Local Traffic Access to Project

Roadways noted as closed to through traffic must remain open at all times for traffic that must use those roadways to access businesses, residences, and for emergency services. The contractor may restrict turning radii and lane widths on roadways closed to through traffic as long as access is maintained to businesses and residences. Provide access using gaps in the curb and gutter, and by paving driveway aprons in stages as directed at the time of construction by the engineer. A gravel surface may be used to maintain access across the work zone for roadways noted as closed to through traffic.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

Schedule of Operations

Unless modifications to the staging are approved by the engineer, the department anticipates that the scope of work for each stage shall be as follows:

Stage 1 Traffic:

- Close Calhoun Road to through traffic from North Avenue to Capitol Drive.
- Calhoun Road shall remain open to local access and emergency services only. An access road shall be provided through the entire project limits. The access road shall have a minimum width of 16 feet and shall be on existing pavement, compacted aggregate/gravel, final pavement, or any combination of those items.
- Three separate full roadway closures will be required to complete the following work items: southern railroad track construction, northern railroad track construction, and marsh excavation and backfill. No two full roadway closures shall occur at the same time.

Stage 1 Construction:

- Complete construction and final restoration of southbound Calhoun Road from North Avenue to Capitol Drive.
- Complete construction and final restoration of the northbound lanes of Calhoun Road from the south project limits to Morningview Court.
- Complete construction and final restoration of the northbound lanes of Calhoun Road from St James Road to the north project limits.
- Begin construction of northbound Calhoun Road from Morningview Court to St James Road.
- Begin construction of stream realignments and B-67-380. Complete construction of at least the west segment of B-67-380 beneath the southbound lanes.
- Complete marsh excavation and backfill.
- Construct temporary crossover on Calhoun Road between Station 308+00'NB' to 310+00'NB'.
- Complete construction of railroad crossings.

Stage 2 Traffic:

- Open Calhoun Road to one lane in each direction on the new southbound lanes between North Avenue and Capitol Drive.
- Install temporary railroad gates for northbound traffic at both railroad crossings prior to opening Calhoun Road to bi-directional traffic.

Stage 2 Construction:

- Complete construction and final restoration of northbound lanes of Calhoun Road from Morningview Court to St James Road.
- Complete final pavement markings.

Stage 3 Traffic:

- Open completed Calhoun Road to final traffic configurations.
- Close left turn lanes between St James Road and Sunnycrest Drive.

Stage 3 Construction:

- Remove temporary median crossover and complete the final median construction between St James Road and Sunnycrest Drive.
- Complete final restoration.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying CTH M or STH 190 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 28, 2021 to 6:00 AM Tuesday, June 1, 2021 for Memorial Day;
- From noon Thursday, July 1, 2021 to 6:00 AM Monday, July 5, 2021 for Independence Day;
- From noon Friday, September 3, 2021 to 6:00 AM Tuesday, September 7, 2021 for Labor Day;
- From noon Wednesday, November 24, 2021 to 6:00 AM Monday, November 29, 2021 for Thanksgiving;

stp-107-005 (20181119)

6. Utilities.

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

stp-107-066 (20080501)

Additional detailed information regarding the location of utility facilities is available at the City of Brookfield Engineering Department during normal working hours.

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 facility.

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

AT&T and We Energies Gas will need to install facilities during construction through the marsh excavation area between River Birch Drive and Burleigh Road. Contact AT&T and We Energies Gas to coordinate their relocations in this area. Detailed descriptions of this work are included in the AT&T and We Energies Gas sections of this article.

AT&T

AT&T has existing underground telephone facilities along the west side of Calhoun Road from the south project limits to the north project limits, and on the east side of Calhoun Road from the south project limits to Station 218+05'NB', with various crossings and side road facilities throughout the project.

Facilities in conflict with the proposed improvements will be relocated as described below, and existing facilities will be discontinued in place. Relocation will begin in November 2020 and is expected to take approximately 120 working days. Relocation through the marsh excavation area between River Birch Drive and Burleigh Road, and along Burleigh Road, will be done during construction and will need 2 weeks to install facilities within the marsh excavation limits.

- Place new pedestals, crossboxes, and Vrad's throughout the project along the relocated facilities. Pedestals, crossboxes, and VRAD's will be adjusted during construction to meet proposed elevation changes along the project at the following locations. "Stub poles" will be installed at some of these locations to account for slack needed to adjust to the finished elevation. The "stub poles" will be removed by AT&T after roadway grading is completed and adjustments are made to the final location and elevation.
 - Crossbox: Station 215'SB'+57, 47.9' LT; Station 304'SB'+59, 52.8' LT
 - VRAD: Station 304'SB'+62, 53.0' LT
 - Pedestal: Station 215'NB'+38, 41.0' RT; Station 224'NB'+29, 33.3' RT; Station 231'NB'+73, 33.2' RT; Station 234'NB'+74, 33.3' RT; Station 239'NB'+28, 32.7' RT; Station 240'NB'+91, 33.3' RT; Station 243'NB'+24, 69.4' RT; Station 243'NB'+84, 33.1' RT; Station 243'SB'+84, 32.7' LT; Station 251'NB'+96, 31.2' RT; Station 251'SB'+96, 31.2' LT; Station 259'NB'+59, 44.9' RT; Station 283'SB'+17, 45.9' LT; Station 287'SB'+27, 47.9' LT; Station 291'SB'+45, 44.2' LT; Station 295'SB'+92, 33.2' LT; Station 304'SB'+60, 59.5' LT; Station 309'SB'+44, 50.8' LT; Station 310'SB'+67, 34.0' LT; Burleigh Rd: Station 49+98, 28.7' RT

- Handhole: Station 215NB+36, 41.0' RT; Station 224NB+29, 31.4' RT; Station 231NB+72, 31.5' RT; Station 234NB+73, 31.7' RT; Station 239NB+25, 32.7' RT; Station 295SB+89, 33.2' LT; Station 304SB+62, 45.9' LT; Station 310SB+64, 34.0' LT; Pheasant Drive: 498' East of Station 33+42, 24' LT; Burleigh Place: Station 79+11, 22.8' LT (Station/Offset estimated)
- Place new underground crossing at Station 215+82'NB' and 'SB'.
- Place new underground line along the east side of Calhoun Road from Station 215+38'NB' to Station 236+25'NB', approximately 30' to 40' RT, generally beneath the proposed terrace.
- Place new underground line along the east side of Calhoun Road from Station 236+25'NB' to Station 239+25'NB', 28' RT.
- Place new underground line along the north side of Pheasant Drive from Station 30+30 to Station 34+80, 25' to 30' LT.
- Place new underground line along the east side of Calhoun Road from Station 239+25'NB' to Station 251+96'NB', 30' to 35' RT.
- Place new underground crossing at Station 240+91'NB' and 'SB'.
- Place new underground line from Station 240+91'SB', 30' LT to existing AT&T manhole at Station 241+43'SB', 30' LT.
- Place new underground crossing at Station 243+84'NB' and 'SB'.
- Place new underground crossing at Station 251+96'NB' and 'SB'.
- Place new underground line along the north side of River Birch Drive from Station 43+00 to Station 40+00, 15' to 25' LT.
- Within the limits of marsh excavation, AT&T will set their relocated line on the ground outside the expected grading limits on the west side of Calhoun Road and the south side of Burleigh Road prior to construction. During marsh backfill operations, AT&T will install their relocated line during construction prior to completion of final grading from Station 251+96'SB' to Station 264+67, 31 to 35' LT and along Burleigh Road from Station 50+00 to Station 52+58, 25' to 30' RT. Coordinate with AT&T on placement of their facilities when the site will be available for AT&T to begin its work. AT&T will need 2 weeks to install facilities within the marsh excavation limits.
- Place new underground crossing at Station 277+64'NB' and 'SB'.
- Place new underground line along the south side of Burleigh Place from Station 75+50 to Station 79+00, 35' RT.
- Place new underground line from Station 277+64'SB' to Station 278+73'SB', 38' LT.
- Place new underground line from Station 283+17'SB' to the north project limits, 30' to 45' LT.
- Place new pole at Station 291+41'SB', 47' LT. Grade around pole.

Charter Communications

Charter has existing underground lines on the east side of Calhoun Road from the south project limits to Station 231+75'NB' RT, overhead lines on We Energies poles from Station 231+75'NB' to Station 242+12'NB' RT, underground lines on the east side of Calhoun Road from Station 242+12'NB' RT to Station 243+50'NB' RT, underground lines on the east side of Calhoun Road from Station 269+39'NB' RT to Station 278+00'NB' RT, and overhead lines on We Energies poles from Station 282+66'NB' RT to Station 304+90'NB' RT and from 310+34'NB' RT to the north project limits. These facilities will be discontinued in place.

Charter Communications facilities will be relocated in a joint facility with We Energies Electric and will require 30 working days to complete connections after We Energies Electric relocations are complete. Refer to the We Energies Electric section of this article for a description of Charter Communications relocations.

Charter will install independent facilities at the following locations:

- Place new underground line along the north side of Pheasant Drive from Station 33+28 LT to an existing vault near Station 37+65 LT.
- Place new underground line from Station 245+18'SB' to Station 249+47'SB', 39' to 48' LT.
- Place new pole anchor at Station 278+765'SB', 52' LT.

- Place new pedestals and power supplies at the following locations during construction. Contractor to grade around the pedestals and power supplies that are within the grading limits:
 - Station 236+12'SB', 60' LT (2 pedestals and 1 power supply)
 - Station 239+50'SB', 58' LT
 - Station 242+33'SB', 55' LT
 - Station 242+60'NB', 56' RT
 - Station 249+47'SB', 43' LT
 - Station 277+93'NB', 123' RT and 114' RT (south side of Burleigh Place)
 - Station 283+11'SB', 50' LT
 - Station 287+22'SB', 74' LT
 - Station 291+11'SB', 56' LT
 - Station 309+55'SB', 56' LT

City of Brookfield – Sanitary Sewer

Sanitary sewer is located under existing Calhoun Road from the south project limits to Station 235+35'NB', from Burleigh Road to the north project limits, and along most side roads. Work to reconstruct, rebuild, and adjust sanitary manholes and sanitary sewer service laterals is included in the contract documents to be performed as part of the project improvements.

The field construction contact for the City of Brookfield – Sanitary Sewer is Daniel Erickson with the Engineering Department at (262) 787-3539.

The inspection contact for the City of Brookfield – Sanitary Sewer is Jason Herzog with the Engineering Department at (262) 787-3542. The City of Brookfield Engineering Department shall be contacted at least 3 days ahead of any utility work to schedule inspection.

City of Brookfield – Water

Water main is located under existing Calhoun Road from the south project limits to River Birch Drive, and from Burleigh Road to the north project limits. Work to install new hydrants, water main, water main offsets, water service offsets, and adjustments to hydrants, valve boxes, curb stops, and manholes is included in the contract documents to be performed as part of the project improvements.

Any facilities not explicitly identified as being relocated have been deemed to not be 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.

Contact the City of Brookfield before removing any water main facilities to verify that they have been discontinued. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without consent from the City of Brookfield. Call the City of Brookfield Engineering Department at (262) 787-3919 to arrange this verification.

The field construction contacts for the City of Brookfield are Jason Herzog and Dan Erickson with the Engineering Department at (262) 787-3919.

The inspection contact for the City of Brookfield – Water is Jason Herzog with the Engineering Department at (262) 787-3919. The City of Brookfield Engineering Department shall be contacted at least 3 days ahead of any utility work to schedule inspection.

Level 3 / CenturyLink

Level 3 / CenturyLink has an overhead crossing of Calhoun Road at Station 215+40, and a joint aerial facility with Charter Communications along the east side of Calhoun Road from Holly Lane to the south CPRR crossing, then on the west side of Calhoun Road from the south CPRR crossing to River Birch Drive.

Level 3 / CenturyLink facilities will be relocated in a joint facility with We Energies Electric and Charter Communications prior to and during construction. Refer to the We Energies Electric and Charter Communications sections of this article for a description of CenturyLink relocations.

Midwest Fiber Networks

Midwest Fiber has underground fiber optic on the west side of Calhoun Road from Brooklawn Drive to Burleigh Place, on the south side of Burleigh Place through the project limits, along the east side of Calhoun Road from Burleigh Place to Station 290+30'NB' RT, and from Station 304+90'NB' RT to the

north project limits, and a line to Fairview School at Station 296+60'SB', 24' to 240' LT. These facilities will be discontinued in place.

Midwest Fiber facilities will be relocated in a joint facility with We Energies Electric prior to and during construction from the south side of Brooklawn Drive to Capitol Drive. Midwest Fiber will require 15 working days to complete connections after We Energies Electric relocations are complete. Refer to the We Energies Electric section of this article for a description of Midwest Fiber relocations.

Midwest Fiber will install independent facilities at the following locations:

- Place new underground line north of Pond 'FV' from Station 269+22'SB', 50' LT to Station 269+84'SB', 83' LT.
- Place new underground line from Station 297+06'SB', 45' LT to Station 297+06'SB', 184' LT, to Station 296+60, 252' LT.
- Place new handholes at the following locations. Contractor to grade around the handholes that are within the grading limits.
 - Station 269+84'SB', 83' LT
 - Station 277+96'NB', 129' RT
 - Station 285+52'SB', 53' LT
 - Station 297+06'SB', 45' LT
 - Station 306+14'SB', 48' LT

Rogers Communications Canada

Rogers had underground fiber optic crossing Calhoun Road near the north CPRR crossing at Station 241+68'NB', 34' RT to Station 241+81'NB', 59' LT. No conflicts are anticipated.

We Energies Electric

We Energies Electric has underground facilities on the west side of Calhoun Road from the south project limits to River Birch Drive, on the east side of Calhoun Road from the south project limits to Station 222+75'NB' RT, on the east side of Calhoun Road from Station 269+35'NB' to Station 279+62'NB' RT, along the west side of Calhoun Road from Station 318+18'SB' LT to the north project limits, on the south side of Pheasant Drive, and along the south side of Burleigh Place. We Energies Electric has overhead facilities crossing Calhoun Road at Station 215+40'NB', along the east side of Calhoun Road from Station 231+77'NB' to Station 242+79'NB' RT, along the west side of Calhoun Road from Station 265+59'SB' to Station 271+86'SB' LT, along the east side of Calhoun Road from Station 278+09'NB' to the north project limits, and along the south side of Burleigh Place, with various overhead and underground crossings throughout the project.

Facilities in conflict with the proposed improvements will be relocated as described below. Existing overhead facilities will be removed, and existing underground facilities will be discontinued in place. Relocation of electric facilities will begin November 2020. Relocation of the electric facilities from the south project limits to River Birch Drive is expected to be complete by April 1, 2021. Relocation of the electric facilities from Burleigh Road to the north project limits is expected to be complete by July 1, 2021.

- Place new underground crossing from Station 215+14'NB', 95' RT to Station 215+59'SB', 76' LT.
- Place new underground line from Station 215+29'SB', 50' LT to Station 215+87'SB', 46' LT.
- Place new underground line from Station 215+87'SB' to Station 245+00'SB', 55' to 60' LT.
- Place new underground crossing from Station 222+76'NB', 52' RT to Station 222+80'SB', 57' LT.
- Place new underground line from Station 231+71'NB', 138' RT to Station 233+17'NB', 55' RT.
- Place new underground line from Station 233+17'NB', 55' RT to Station 240+97'NB', 55' RT.
- Place new underground crossing from Station 234+50'SB', 49' LT to Station 234+50'NB', 55' RT.
- Place new underground line from Station 231+75'SB', 49' LT to Station 234+50'SB', 49' LT.
- Place new underground line along Pheasant Drive from Station 30+69 to Station 33+25, 40' to 45' LT, with a crossing under Pheasant Drive at Station 33+25.
- Place new underground crossing from Station 239+50'SB', 58' LT to Station 239+50'NB', 55' RT.
- Place new underground crossing from Station 242+54'SB' 53' LT, to Station 242+54'NB', 46' RT.
- Place new underground crossing from Station 242+60'SB', 50' LT to Station 242+60'NB', 56' RT.

- Place new underground line along River Birch Drive from Station 41+46 to Station 42+85, 20' to 2' RT, with a crossing under River Birch Drive at Station 41+46.
- Place new underground line from Station 264+87'SB' to Station 266+49'SB', 55' LT. This line will be installed following completion of marsh excavation, backfill, subgrade construction, and base course placement. Coordinate with We Energies on placement of this line when the site will be available for We Energies to begin its work. Provide We Energies 14 days' notice and a 3 day reminder notice.
- Place new underground line from Station 266+49'SB' to Station 269+22'SB', 53' to 56' LT.
- Place new underground crossing from Station 269+22'SB', 55' LT to Station 269+22'NB', 46' RT.
- Place new underground line from Station 269+22'NB' to Station 271+40'NB', 46' RT.
- Place new underground line from Station 271+40'NB' to Station 274+94'NB', 51' RT, angling to Station 275+43'NB', 65' RT, continuing north to Station 277+52, 65' RT.
- Place new underground crossing from Station 277+14'SB', 53' LT to Station 277+14'NB, 65' RT.
- Place new underground crossing from Station 277+20'SB', 59' LT to Station 277+20'NB, 65' RT.
- Place new underground line from Station 277+14'SB' to Station 314+00'SB, 48' to 58' LT.
- Place new underground line from Station 277+20'SB' to Station 278+75, 59' LT.
- Place new poles at the following locations prior to construction. Contractor to grade around the poles.
 - Station 215+64'SB', 75' LT
 - Station 231+80'SB', 101' LT
 - Station 240+97'NB', 55' RT
 - Station 267+35'SB', 49' LT
 - Burleigh Place, Station 77+41, 29' RT and Station 79+72, 29' RT
 - Station 278+82'SB', 46' LT
 - Station 278+74'SB', 57' LT
 - Station 304+06'SB', 52' LT
- Place new light poles at the following locations prior to construction, unless otherwise noted. Contractor to grade around the light poles.
 - Station 224+64'SB', 55' LT
 - Station 231+83'SB', 46' LT
 - Station 238+68'NB', 64' RT
 - Station 251+02'SB', 50' LT
 - Station 264+87'SB', 48' LT. This light pole will be installed following completion of marsh excavation, backfill, subgrade construction, and base course placement. Coordinate with We Energies on placement of this light pole when the site will be available for We Energies to begin its work. Provide We Energies 14 days' notice and a 3 day reminder notice.
 - Station 269+32'SB', 48' LT
 - Station 272+22'NB', 46' RT
 - Station 280+77'SB', 48' LT
 - Station 283+28'NB', 48' RT
 - Station 285+00'SB', 48' LT
 - Station 294+76'NB', 48' RT
 - Station 306+22'SB', 46' LT
 - Station 312+20'NB, 57' RT

We Energies Gas

We Energies Gas has 4" gas line on the west side of Calhoun Road from the south project limits to the north project limits, and a 4" PE gas line on the east side of Calhoun Road from the south project limits to the north project limits, with various crossings and side road facilities throughout the project.

Facilities in conflict with the proposed improvements will be relocated as described below. Existing overhead facilities will be removed, and existing underground facilities will be discontinued in place.

Relocation of electric facilities will begin November 2020. Work between the south project limits and River Birch Drive is expected to take 110 working days. Relocation of the electric facilities from Burleigh Road to the north project limits is expected to take 175 working days.

- Place new gas main from Station 215+35'SB' to Station 310+00'SB', 34' LT to 41' LT.
- Near Holly Lane, the gas main will be installed from Station 232+00'SB', 102' LT; Station 232+50'SB', 81' LT; Station 232+75'SB', 68.5' LT; Station 233+00'SB', 60' LT, 233+50'SB', 50' LT; to Station 233+92, 41' LT. The top of the new gas main is proposed to be beneath the endwall, wingwall, and cutoff wall for B-67-380, and below storm sewer and temporary culvert pipes north of Holly Lane. Do not excavate or drive sheet piling deeper than the proposed elevations shown in the plan for the endwall, wingwall, and cutoff wall.
- Place new gas main from Station 215+75'NB' to Station 312+50'NB', 31' to 48' RT.
- From Station 250+00'NB' and 'SB' to Station 268+00'NB' and 'SB', We Energies will leave existing facilities in place prior to marsh excavation. During marsh excavation, the gas main will be cut and gapped in that area until marsh excavation and backfill is complete. We Energies will install new gas main from Station 250+00'NB' to Station 268+00'NB', 55' to 65' RT, and Station 250+00'SB' to Station 268+00'SB', 33' to 50' LT during construction prior to completion of final grading. Coordinate with We Energies on placement of their facilities when the site will be available for We Energies to begin its work. We Energies will need approximately 10 working days for gapping the gas main in the marsh excavation area, and 20 working days to re-establish the gas main in the marsh excavation area.
- At Station 222+00'SB', 41' LT, install storm sewer beneath the relocated gas line.
- At Station 222+70'SB', 41' LT, install storm sewer beneath the relocated gas line.
- At Station 250+75'SB', 34' LT, coordinate with We Energies on storm sewer installation. If the storm sewer is installed prior to relay of the gas line in that area, We Energies will install the gas line above the new storm sewer line. If the gas line is installed prior to installation of the storm sewer line, the gas line will be set at an elevation of 826.50. No conflict is anticipated in either scenario.

ID 2783-05-71:

Utility coordination for ID 2783-05-71 was completed under ID 2783-05-70 as described above.

7. Other Contracts.

Under Project 2759-03-70, the Wisconsin Department of Transportation and Waukesha County will be reconstructing CTH M (North Avenue) from Calhoun Road to the East County Line during the 2020 and 2021 construction seasons. Coordinate traffic control at the Calhoun Road / CTH M (North Avenue) intersection and along the Calhoun Road detour route with project 2759-03-70. The Calhoun Road intersection within the North Avenue project is expected to be completed in advance of the Calhoun Road project.

The Wisconsin Department of Transportation contact for project 2759-03-70 is Philip Ciha, Philip.ciha@dot.wi.gov, (414) 750-1951.

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

A Description

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

A.1 Railroad Insurance Requirements

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

Notify evidence of the required coverage, and duration to Brian Osborne, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail: brian_osborne@cpr.ca.

Also send a copy to the following: Paul Derksen, SE Region Railroad Coordinator; 141 N. W. Barstow Street, Waukesha, WI 53188; Telephone (262) 548-8770; E-mail: paul.derksen@dot.wi.gov.

Include the following information on the insurance document:

- Project: 2783-05-70
- Work Performed: Roadway project to grade and pave approaches leading up to the tracks

#	Route Name	City/County	Crossing ID	RR Subdivision	RR Milepost
1	Calhoun Road	Brookfield/Waukesha	390517A	Watertown Sub	0098.060
2	Calhoun Road	Brookfield/Waukesha	390520H	Watertown Sub	0098.380

A.2 Train Operation

#	Passenger Train Volume	Passenger Train Speed	Freight Train Volume	Freight Train Speed	Frequency	Switch Train Comment*
1	2	65 mph	20	65 mph	Daily	No switch trains
2	2	65 mph	20	65 mph	Daily	No switch trains

* Switch trains are in addition to freight and passenger trains.

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

Construction Contact

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

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

Flagging Contact

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

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

Cable Locate Contact

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

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

A.4 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. Upgrade existing warning devices, install temporary warning devices, and renew crossing surfaces.

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

A.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.

B Railroad Flagging

Arrange with the railroad for the flagging of trains and safety of railroad operations if clearances specified in standard spec 107.17.1 are not maintained during construction operations. At any other time in railroad representative's judgment, the contractor's work or operations constitute an intrusion into the track zone and create an extraordinary hazard to railroad traffic, and at any other time when flagging protection is necessary for safety to comply with the operating rules of the railroad.

Projects with concurrent activity may require more than one flagger.

Projects with heavy contractor activity within 25 feet of the centerline of any track or unusual or heavy impact on railroad facilities will normally require a full-time flagger.

The department and railroad will monitor operations for compliance with the above flagging requirements. Violations may result in removal from railroad property until arrangements to adhere to the flagging requirements are satisfied. If the railroad imposes additional flagging requirements beyond the above flagging requirements due to the previous violations, the contractor shall bear all costs of the additional flagging requirements.

C Flagging by Railroad– Railroad Does Not Pay Flagging Costs

C.1 General

Replace paragraph (1,3 and 4) of standard spec 107.17.1 with the following:

- (1) Coordinate with the railroad for all work performed within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. Include the following on all submittals and other written communications with the railroad:
 - WisDOT crossing number.
 - Railroad milepost.
 - Railroad subdivision.
- (3) Perform all work within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way in a way that does not interfere with the safe and uninterrupted operation of railroad traffic. Maintain clearances during construction as follows:
 1. Do not operate equipment closer than 25 feet horizontally from a track centerline or 22 feet vertically above the top of a rail, except under the protection of railroad flaggers.
 2. Do not store materials or equipment closer than 25 feet horizontally from a track centerline.
 3. Provide an obstruction-free work zone adjacent to a track extending 12 feet or more horizontally on both sides of the track centerline. Keep this work zone free of construction debris.
 4. Unless the railroad's chief engineering officer approves otherwise in writing, maintain minimum clearances from falsework, forms, shoring, and other temporary fixed objects as follows:
 - 4.1 Provide 12 feet, plus 1.5 inches per degree of track curvature, measured horizontally from the track centerline.
 - 4.2 Provide 21 feet, plus compensation for super-elevated track, measured vertically above the top of the highest rail.
- (4) Comply with the railroad's rules and regulations when work is within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. If the railroad's chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and make payment directly to the railroad. Notify the appropriate railroad representative as listed in section A.3 above, in writing, at least 40 business days before starting work near a track. Provide the specific time planned to start the operations.

C.2 Rates - Soo Line Railroad Company (CP)

The following rates, reimbursement provisions, and excluded conditions will be used to determine the contractor's cost of flagging:

- \$1,200 daily rate for an eight-hour day (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- \$1,500 daily rate for an eight-hour day on Saturdays, Sundays or holidays (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- \$151 per hour overtime rate for all time worked before or after the regular assigned eight hours on any day, or for a minimum three hour call on Saturdays, Sundays, or Holidays.

If a flagger must be relieved due to hours of service requirements, arrangements will be made for a relief flagger.

The flagger is required to set flags each day in advance of the contractor commencing work that will require flagging. The flagger must also remove the flags each day after the completion of work that required flagging. Any time worked before or after the minimum eight-hour flagging day to set or remove flags will be billed at the overtime rate. The contractor is responsible for knowing the requirements of the railroad for arranging and terminating flagging services and for the associated costs of those services.

C.3 Reimbursement Provisions

The actual cost for flagging will be billed by the railroad. After the completion of the work requiring flagging protection as provided in section B above, the department will reimburse 50% of the cost of such services up to the rates provided above based on paid railroad invoices, except for the excluded conditions enumerated below. In the event actual flagging rates exceed the rates stated above, the department will reimburse 100% of the portion of the rate that is greater than the rates stated above.

C.4 Excluded Conditions

The department will not reimburse any of the cost for additional flagging attributable to the following:

1. Additional flagging requirements imposed by the railroad beyond the flagging requirements provided in subsection B above due to violations by the contractor.
2. Temporary construction crossings arranged for by the contractor.

The contractor shall bear all costs of the additional flagging requirements for the excluded conditions.

C.5 Payment for Flagging

The department will pay for the department's portion of flagging reimbursement as specified in section C of this provision under the following item:

ITEM NUMBER	DESCRIPTION	UNIT
801.0117	Railroad Flagging Reimbursement	DOL

The reimbursement payment, as shown on the Schedule of Items, is solely for department accounting purposes. Actual flagging costs will vary based on the contractor's means and methods.

Railroads may issue progressive invoices. Notify the railroad when the work is completed and request a final invoice from the railroad. Promptly pay railroad-flagging invoices, less any charges that may be in dispute. The department will withhold flagging reimbursement until any disputed charges are resolved and the final invoice is paid. No reimbursement for flagging will be made by the department if a violation of subsection B is documented.

stp-107-034 (20200629)

9. Hauling Restrictions.

Hauling of materials to and from the construction site of this project shall be restricted to Calhoun Road and County and State Highways. No hauling will be allowed on City of Brookfield local streets without prior written approval from the City of Brookfield Public Department of Public Works.

Written requests for the use of city streets shall be submitted to Tom Grisa, Public Works Director, City of Brookfield at 2000 N. Calhoun Road, Brookfield, WI 53005. Requests shall be made two weeks in advance of proposed use for consideration by the city.

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Kathy Kramer at (262) 548-8772.

stp-107-054 (20080901)

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Kathy Kramer at (262) 548-8772. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

12. Environmental Protection, Aquatic Exotic Species Control.

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

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

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

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

Use the following inspection and removal procedures:

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

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

stp-107-055 (20130615)

13. Erosion Control.

The contractor shall prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering according to Chapter TRANS 401 requirements. The ECIP shall supplement information shown on the plans and shall not reproduce it. The ECIP shall identify how the contractor intends to implement the project's erosion control plan. A staged ECIP may be required for this project as new areas of the project are disturbed.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to WisDOT and 1 copy of the ECIP to the WDNR Liaison (Craig Webster, (262) 574-2141 or craig.webster@wi.gov). Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

Final restoration or temporary stabilization shall be in place and approved by the engineer prior to advancing construction operations to the next stage.

The ECIP shall include temporary erosion control devices to be implemented prior to or in conjunction with clearing and grubbing operations. Temporary seed and mulch cleared and grubbed areas within 48 hours of disturbance.

Re-topsoil graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 calendar days after placement of topsoil. If permanent restoration or temporary vegetative cover will not be achieved within 14 days of any disturbance to graded areas, restore those areas with temporary seed and mulch within 72-hours of disturbance.

Permanently protect or restore all disturbed stream banks, wetland areas, and all disturbed areas within 100-feet of the Unnamed Tributary to the Fox River and Underwood Creek or implement temporary erosion control devices within 24-hours of disturbance in these areas.

This project involves work that may involve cutting or wounding of oak trees. To prevent the spread of oak wilt disease, avoid cutting or pruning of oaks from April through September.

When performing roadway cleaning operations, use equipment having vacuum or water spray mechanism to eliminate the dispersion of dust. If vacuum equipment is employed, it shall have suitable self-contained particulate collectors to prevent discharge from the collection bin into the atmosphere.

All saw cut slurry must be removed from the pavement before moving to the next saw cut location. Squeegee slurry onto adjacent aggregate or collect and remove from the site. Slurry may not be left on the pavement surface. Slurry removal shall be incidental to sawing asphalt and sawing concrete.

Stockpile excess material or spoils on upland areas away from wetlands, floodplains and waterways. Stockpiled soil shall be protected against erosion. Temporarily stabilize on-site stockpiles and windrowed material with temporary seed and mulch no later than the end of the work day or no later than the next day, for each day the stockpiles or windrows are added to.

Clean up materials dropped or fallen from trucks beyond the work area before the end of each work day. Consider use of water tight end gates or liners for dump trucks hauling marsh excavation material.

Excavate bypass channels and install lining before allowing streamflow to enter the channel.

Erosion control BMPs are at suggested locations. The actual locations will be determined by the contractor's ECIP and by the engineer. Erosion Control BMPs shall be maintained until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

During marsh excavation backfill operations, take measures to ensure that surge water does not leave the work area that may deposit sediment into adjacent wetlands. Management of water in marsh excavation shall be incidental to the work.

Maintain stream flow along the Unnamed Tributary to the Fox River and Underwood Creek at all times during construction. Removal and construction of pipes within these waterways may be allowed only if stormwater flow is bypassed around construction through temporary pipes, bypass pumping, or diversion channel as approved in the ECIP. Ensure flow is maintained after each work day.

14. Erosion Control Structures.

Within three calendar days after completing the excavation for a substructure unit, place riprap or other permanent erosion control items required by the contract or deemed necessary by the engineer around the unit at a minimum to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs.

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

stp-107-070 (20191121)

15. Environmental Protection, By-Pass Pumping.

Add the following to standard spec 107.18:

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

ner-107-035 (20180212)

16. Environmental Protection, Dewatering.

Add the following to standard spec 107.18:

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice before discharge. The means and methods proposed to be used during construction shall be submitted for approval as part of the Erosion Control Implementation Plan for dewatering at each location it is required. The submittal shall also include the details of how the intake will be managed to not cause an increase in the background level turbidity before treatment and any additional erosion controls necessary to prevent sediments from reaching the project limits or wetlands and waterways. Guidance on dewatering can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dewatering Code #1061, "Dewatering". This document can be found at the WisDNR website:

http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

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

ner-107-040 (20180212)

If water enters the excavation in volumes that could adversely affect the performance of the work or has the potential to cause loss or damage to adjacent property or structures, take immediate steps to reduce or mitigate the water inflow.

Do not pump water from the construction site to a storm water conveyance without the water first passing through a temporary settling basin and/or filter bag. Discharge water in a manner that will not cause soil erosion at the discharge point. Discharge shall not cause sediment accumulation or flooding in any stream, storm sewer, or on adjacent properties.

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.

Obtain permission to use storm sewers or drains for water disposal purposes from the authority having jurisdiction. Protection of storm sewers and drains shall be in conformance with the Wisconsin Construction Site Best Management Practices Handbook, latest revision, and the requirements by authority having jurisdiction. Any requirements and costs for such use shall be the responsibility of the contractor. Do not cause flooding by overloading or blocking the flow in the drainage facilities and leave the facilities unrestricted and as clean as originally found. Document the condition of the drainage facilities prior to and subsequent to their use. The engineer may independently verify the condition of such facilities. Repair or restore any damage to facilities as a result of the contractor's operations as directed by the authority having jurisdiction, at the contractor's expense.

17. Notice to Contractor – Possible Contamination Beyond Construction Limits.

The department completed a review of environmental documents and databases for soil and groundwater contamination at locations within this project where excavation is required. The review indicated that petroleum-contaminated soil and groundwater may be present beyond the project limits at the following location:

1. Station 293+75 SB to 295+25 SB, beyond project limits left (Former Alfred Johns Property, 3555 N. Calhoun Rd., 1,000-gallon heating oil UST removed in 1995).

Contaminated soil and groundwater at the above site, if present, is expected to be beyond the excavation limits necessary to complete the work under this project. Control construction operations near this location to ensure that they do not extend beyond the excavation limits indicated in the plans. If contaminated soil and/or groundwater is encountered near this site 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

stp-107-100 (20050901)

18. Notice to Contractor – Airport Operating Restrictions.

File a Notice of Proposed Construction or Alteration (form 7460-1) with the Federal Aviation Administration (FAA) a minimum of 45 days prior to construction.

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

Any borrow sites, waste sites, and stormwater features within 5 miles of an airport that hold water for more than 48 hours after a storm event shall be coordinated with the Wisconsin Bureau of Aeronautics to review for the potential of wildlife hazards to aircraft.

The contractor shall not create any electrical or electronic interference with radio communications between air navigational or aviation communications. The contractor shall not make it difficult for an aircraft pilot to distinguish between airport lights or impair an aircraft pilot's visual perception to endanger the landing, taking off, or maneuvering of the aircraft.

19. Notice to Contractor – Private Drainage Connections.

Contact residents and businesses along the project to determine if there are existing sump pump outlets or other private drainage pipes. If the residents or businesses suspect sump pump outlets or other private drainage pipes are present, but their location is unknown, excavation to locate outlets shall be paid under Drain Tile Exploration, as directed by the engineer. Connect sump pump outlets or other private drainage pipes to storm sewer or daylight to ditches or drainageways using Pipe Underdrain. Connections to existing pipes and to storm sewer shall be incidental to Pipe Underdrain.

20. Notice to Contractor – Traffic Signal Equipment Lead Time.

Order traffic signal equipment as soon as possible to assure the equipment is procured in a timely fashion and, therefore, installed, inspected, and ready for turn-on at the required date.

21. Construction Over or Adjacent to Navigable Waters.

The Unnamed Tributary to the Fox River and Underwood Creek are classified as a state navigable waterways under standard spec 107.19.

stp-107-060 (20171130)

22. 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 no further meetings will be required unless directed by the engineer. 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)

23. 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 9:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.

stp-107-001 (20060512)

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

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

stp-105-001 (20140630)

25. Referenced Construction Specifications.

Construct the work enumerated below conforming to the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest 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:

- City of Brookfield water facilities
- City of Brookfield sanitary sewer facilities

stp-105-002 (20130615)

26. Geotechnical Investigation Information.

Replace standard spec 102.5(3) 2 with the following:

Available information relative to subsurface exploration, borings, soundings, water levels, elevations, or profiles are available from the City of Brookfield by calling Jeff Chase, City Engineer, (262) 787-3524.

- Geotechnical Report for Calhoun Road from North Avenue to Capitol Drive
- Addendum A for Proposed Box Culvert

Review the available information to determine if it is of use. The use or not of the geotechnical information does not relieve performing the work conforming to the plans and specifications.

27. Traffic Signals, General.

All work shall be according to the plans and the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, 2021 Edition, 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 city-owned facilities shall be repaired or relocated as needed at the contractor's expense.

Work under this item shall consist of furnishing and installing all materials for the City of Brookfield owned traffic signal as shown on the plans. The installation includes the construction of underground and above ground equipment. The contractor will 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.).

Notify the City of Brookfield Engineering Division at (262) 787-3919 at least three weeks prior to the beginning of the traffic signal work.

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

28. Abandoning Sewer, Item 204.0291.S.

A Description

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

B Materials

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

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

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

29. Removing Flag Pole, Item 204.9060.S.01.

A Description

This special provision describes removing flag pole conforming to standard spec 204.

B (Vacant)

C Construction

Remove existing flag pole from the locations designated on the Plans. Remove the complete flag pole unit (pole, rope, cleats, flagsnaps). Flag pole and all attachment pieces to be set aside for property owner on their property.

D Measurement

The department will measure Removing Flag Pole as each individual flag pole, acceptably removed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S	Removing Flag Pole	EACH

Payment is full compensation for disassembling, removing, and setting aside the flag pole and all attached components.

stp-204-025 (20150630)

30. Removing Private Light, Item 204.9060.S.02.

A Description

This special provision describes removing private lights poles conforming to standard spec 204.

B (Vacant)

C Construction

Provide 7 days' notice to the property owner before removing private lights to coordinate disconnecting the power source.

Remove existing lights, poles, conduit, and wiring according to standard spec 204 and 651. De-energize and remove wiring and conduit necessary to remove the private light poles. Remove wiring and conduit to the right of way and abandon the remaining portion in compliance with the State Electric Code. Dispose of removed materials.

D Measurement

The department will measure Removing Private Light as each individual light, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S	Removing Private Light	EACH

Payment is full compensation for removing lights, poles, conduit, wiring, and all attached components; for capping conduit and wiring; and for disposing of removed materials.

stp-204-025 (20150630)

31. Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a WDNR-approved bioremediation facility. The closest WDNR-approved bioremediation facilities are:

Waste Management Orchard Ridge Landfill
W124 N9355 Boundary Rd.
Menomonee Falls, WI 53051
(866) 909-4458

Advanced Disposal Emerald Park Landfill
W124 S10629 S. 124th St.
Muskego, WI 53150
(414) 529-1360

Perform this work according to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Locations

The department completed testing for soil contamination at locations within this project where excavation is required.

Testing indicated that petroleum-contaminated soil is present at the following locations as shown on the plans:

- Station 214+50SB to 215+15SB, from SB reference line to project limits left, from 6 to 10+ feet below grade. The estimated volume of contaminated soil to be excavated at this location is 5 CY (approximately 8.5 tons using a conversion factor of 1.7 tons per cubic yard).
- Station 214+50NB to 215+00NB, from NB reference line to project limits right, from 1 to 6 feet below grade. The estimated volume of contaminated soil to be excavated at this location is 150 CY (approximately 255 tons using a conversion factor of 1.7 tons per cubic yard).

Directly load soil excavated by the project at the above locations into trucks that will transport the soil to a WDNR-licensed bioremediation facility.

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

Active groundwater monitoring wells were not observed within the construction limits during the hazardous materials assessment. If active groundwater monitoring wells are encountered during construction, notify the engineer and protect the wells to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

A.3 Excavation Management Plan

The excavation management plan for this project has been designed to minimize the offsite disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigations, remediation activities and waste characterization within the project limits, contact:

Name: Andrew Malsom
Address: 141 NW Barstow Street, PO Box 798, Waukesha, WI 53187-0798
Phone: (262) 548-6705
Fax: (262) 548-6891
E-mail: andrew.malsom@dot.wi.gov

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd., Ste. 180, Brookfield, WI 53045
Contact: Bryan Bergmann
Phone: (262) 901-2126 office, (262) 227-9210 cell
Fax: (262) 879-1220
E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the bioremediation facility;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in the contaminated area.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated area. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR approved bioremediation facility that will be used for disposal of contaminated soils and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the bioremediation facility. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products and metals. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Add the following to standard spec 205.3:

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for

evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation so as not to contain free liquids.

If dewatering is required in an area of known contamination, water generated from dewatering activities may contain contaminants and require testing, special handling, temporary storage, and disposal. Contaminated groundwater may be discharged to the sanitary sewer with prior approval from the City of Brookfield and the Milwaukee Metropolitan Sewerage District.

Contractor shall ensure continuous dewatering and excavation safety at all times. Provide, install, operate, maintain adequate pumping equipment, disassemble, and remove pumping equipment.

Costs associated with excavation and dewatering in the contaminated area are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from the construction project.

Limit excavation in the location described in A.2 to minimize the handling of groundwater. Notify the engineer of any dewatering activities. Contractor shall obtain any permits necessary to discharge or dispose of contaminated water. Provide copies of such Permit to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil, accepted by the bioremediation facility as documented by weight tickets generated by the bioremediation facility.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils prior to transport, if necessary.

32. Select Borrow.

Conform to standard spec 208 as modified in this special provision.

Material

Furnish and use material that consists of granular material meeting the following requirements:

Grade 2 Granular Backfill.

stp-208-005 (20031103)

33. QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.2000.S.

A Description

- (1) This special provision describes modifying the compaction and density testing and documentation requirements of work done under the Base Aggregate Dense 1 1/4-Inch bid items. Conform to standard spec 305 as modified in this special provision and to the contract QMP Base Aggregate article.
- (2) Provide and maintain a quality management program. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process related to construction of dense graded base which meets all the requirements of this provision.

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

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

- (4) This special provision applies to Base Aggregate Dense 1 1/4-Inch material placed: above at least 16 inches of subgrade improvement, 12 inches of subgrade improvement and geogrid or QMP subgrade provisions, between shoulder hinge points and lower than mainline pavement. Unless otherwise specified by the contract, all Base Aggregate Dense 1 1/4-Inch material placed on side roads, private and public entrances, individual ramps less than 1500 feet, passing lanes less than 1500 feet, tapers, turn lanes, and other undefined locations are exempt from the compaction and density requirement modifications and testing contained within this special provision.

B (Vacant)

C Construction

C.1 General

- (1) The engineer shall approve the grade before placement of the base. Approval of the grade shall be according to applicable provisions of the standard specifications.

Add the following to standard spec 305.3.2.2:

- (3) For 1 1/4-Inch dense graded base composed of $\leq 20\%$ reclaimed asphaltic pavement (RAP) or crushed concrete (RCA), as determined by classification of material (aggregate or RAP and/or RCA) and percentage by weight of each material type retained on the No. 4 Sieve, the contractor must determine the material target density according to:

Method 1: Maximum dry density according to AASHTO T-180, Method D, with correction for coarse particles and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85. Bulk Specific Gravities determined according to standard spec 106.3.4.2.2 for aggregate source approval may be utilized.

- (4) For 1 1/4-Inch dense graded base composed of $>20\%$ RAP or RCA, as determined by classification of material (aggregate or RAP and/or RCA) and percentage by weight of each material type retained on the No. 4 Sieve, the contractor may choose from the following options to determine the material target density:

Method 2: Maximum dry density as determined by AASHTO T-180, Method D, with correction for coarse particles, and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85.

Method 3: Maximum wet density as determined by AASHTO T-180, Method D, modified to define *Maximum Density* as the wet density in pounds per cubic foot of soil at optimum moisture content using Method D specified compaction, with correction for coarse particles, and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85.

Method 4: Average of 10 random control strip wet density measurements as described in section C.2.5.1.

- (5) Compact the 1 1/4-Inch dense graded base to a minimum of 93.0% of the material target density for methods 1, 2 and 3. Compact 1 1/4-inch dense graded base to a minimum of 96% of the material target density for method 4. Ensure that adequate moisture is present during placement and compaction operations to prevent segregation and to help achieve compaction.
- (6) Base Aggregate Dense 1 1/4-Inch will be accepted for compaction on a lot basis.
- (7) Field density tests on materials using contractor elected target density methods 3 or 4 will not be considered for lot acceptance on the basis of compaction under the requirements of this provision until the moisture content of the in-place material is less than 2.0 percentage points above the maximum wet density optimum moisture or 2.0 percentage points of the average moisture content of the 10 density tests representing a control strip, respectively. Determine moisture content using AASHTO T255 as modified in CMM chapter 8 or a nuclear density gauge. If conducting AASHTO T255, sample materials after watering but before compaction.

C.2 Quality Management Program

C.2.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer no later than 10 business days before placement of material. Do not place any dense graded base before the engineer reviews and accepts the plan. Construct the project as the plan provides.

- (2) Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:
1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
 2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
 3. A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
 4. Descriptions of stockpiling and hauling methods.
 5. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
 6. Location of the QC laboratory, retained sample storage, and other documentation.
 7. Lot layout and random test location plan.
 8. A description of placement methods and operations. Including, but not limited to: staging, construction of an initial working platform, lift thicknesses, and equipment.

C.2.1 Pre-Placement Meeting

A minimum of two weeks before placement of Base Aggregate Dense 1 1/4-Inch material, hold a pre-placement meeting at a mutually agreed upon time and location. Present the Quality Control Plan at the meeting. Attendance at the pre-placement meeting is mandatory for the project superintendent, quality control manager, project inspection and testing staff, all appropriate contractor personnel involved in the sampling, testing, and quality control including subcontractors, and the engineer or designated representatives.

C.2.2 Personnel

- (1) Perform the quality control sampling, testing, and documentation required under this provision using technicians certified by the department's Highway Technician Certification Program (HTCP). Have a HTCP Nuclear Density Technician I, or ACT certified technician, perform field density and field moisture content testing. Adhere to the minimum required certifications for aggregate testing per part 7 of the standard specification. AASHTO T180 proctor testing requires a minimum certification level of AGGTEC-1.
- (2) If an ACT is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

C.2.3 Equipment

- (1) Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.
- (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>
- (3) Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.
- (4) For all target density methods, conform to AASHTO T310 and CMM 8-15 for wet density testing and gauge monitoring methods.
- (5) For the specified target density determined using method 1 in section C.1, compute the dry densities for the compacted dense graded base, composed of $\leq 20\%$ RAP or RCA, according to AASHTO T310.
- (6) For contractor elected target density method 2 in section C.1, compute dry densities of dense graded base composed of $> 20\%$ RAP or RCA using a moisture correction factor and the nuclear wet density value. Determine the moisture correction value, for each Proctor produced under the requirements of C.2.5, using the moisture bias as shown in CMM 8.15.12.1 and 8.15.12.2, except the one-point Proctor tests of the 5 random tests is not required. Conduct a moisture bias test for every 7500 feet of Base Aggregate Dense 1 1/4-Inch placed. Determine natural moistures in the laboratory.

- (7) Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Backscatter may be used only if the material being tested cannot reliably maintain an undistorted direct transmission test hole. Direct transmission tests must be performed at the greatest possible probe depth of 2 inches, 4 inches, or 6 inches, but not to exceed the depth of the compacted layer being tested. Perform each test for at least one minute of nuclear gauge count time.

C.2.5 Contractor Testing

- (1) Perform compaction testing on the mainline dense graded base material, as defined by A.(4). Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians as required in C.2.3. Conform to CMM 8-15 for testing and gauge monitoring methods.
- (2) Select test sites randomly using ASTM Method D3665. Random numbers may be determined using an electronic random number generator. Guidance for determining test locations can be found in section 8-30.9 of the Construction and Materials Manual (CMM). Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.
- (3) When a density target is determined in accordance methods 3 or 4 in section C.1, conduct density testing on same date of final compaction.

C.2.5.1 Contractor Required Quality Control (QC) Testing

- (1) Conduct testing at a minimum frequency of one test per lot. A lot is 1500 feet for each layer with a maximum width of 18 feet and minimum lift thickness of 2" of Base Aggregate Dense 1 1/4-Inch material placed. Layer widths exceeding 18 feet are divided into equal lots. Each lot of compacted Base Aggregate Dense 1 1/4-Inch material, as defined by A.(4), will be accepted when the lot field density meets the required minimum density. Lots that don't achieve density requirements must be addressed and approved according to C.2.7.
- (2) Add separate lots for passing lanes and individual ramps greater than 1500 feet.
- (3) Combine partial lots less than 750 feet with the previous lot. Partial lots greater than or equal to 750 feet are standalone lots.
- (4) Notify the engineer, if a lot field density test falls below the required minimum value. Document and perform corrective actions according to C.2.7. Deliver documentation of all compaction testing results to the engineer at the time of testing.

C.2.5.1.1 Target Density Determination

C.2.4.1.1.1 Maximum Wet and/or Dry Density Methods

- (1) For contractor elected target density methods 2 and 3 in section C.1, and contractually specified target density method 1 in section C.1; perform one gradation and 5-point Proctor test before placement of 1 1/4-Inch dense graded base. Perform additional gradations every 3000 tons according to standard spec 305 and 730. If sampling requirements are identical, samples/testing performed for the QMP Base Aggregate specification may be used to fulfill the gradation testing requirements of this specification.
- (2) Perform additional 5-point Proctor tests, at a minimum, when:
 1. The four point moving average gradation on any one sieve differs from the original gradation test result for that sieve, by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to create a 5-point Proctor. Each 5-point Proctor test will remain valid for any material with gradation for all sieves within 10.0 percentage points of that Proctor's original gradation test.
 2. The source of base aggregate changes.
 3. Percent target density exceeds 103.0% on two consecutive density tests.
- (3) Provide Proctor test results to the engineer within two business days of sampling. Provide gradation test results to the engineer within one business day of sampling.
- (4) Split each contractor QC Proctor sample and identify it according to CMM 8-30. Deliver the split to the engineer within one business day for department QV Proctor testing.
- (5) Split each non-Proctor contractor QC sample and identify it according to CMM 8-30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.

C.2.5.1.1.2 Density Control Strip Method

- (1) For contractor elected target density method 4 in section C.1, construct a control strip for each layer of placement to identify the target wet density for the base aggregate dense material. The control strip construction and density testing will occur under the direct observation and/or assistance of the department QV personnel. For blended material, reprocessed material and crushed concrete, perform additional gradations every 3000 tons according to standard spec 305 and 730. If sampling frequencies are identical, samples/testing performed for the QMP Base Aggregate specification may be used to fulfill the gradation testing requirements of this specification.
- (2) Unless the engineer approves otherwise, construct control strips to a minimum dimension of 300 feet long and one full lane width.
- (3) Completed control strips may remain in-place to be incorporated into the final roadway cross-section.
- (4) Construct additional control strips, at a minimum, when:
 1. The source of base aggregate changes.
 2. The four point moving average percentage of blended recycled materials, from classification of material retained on the No. 4 sieve in the original gradation test, differs by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to construct the control strip.
 3. The layer thickness changes more than 2.0 inches.
 4. The percent target density exceeds 103.0% on two consecutive density measurements.
- (5) Construct control strips using equipment and methods representative of the operations to be used to place and compact the remaining 1 1/4-Inch Base Aggregate Dense material. Wet the base, as mutually agreed upon by the contractor and engineer, to obtain and/or maintain adequate moisture content to ensure proper compaction. Discontinue water placement if the base begins to exhibit signs of saturation or instability.
- (6) After compacting the control strip with a minimum of 2 passes, mark and take density measurements at 3 random locations. Subsequent density measurements will be taken at the same 3 locations. Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.
- (7) After each subsequent pass of compaction equipment over the entirety of the control strip, take wet density measurements at the 3 marked locations. Continue compacting and testing until the increase in wet density measurements are less than 2.0 lb/ft³, or the density measurements begin to decrease.
- (8) Upon completion of control strip compaction, take 10 randomly located wet density measurements within the limits of the control strip. The final measurements recorded at the 3 locations under article C.2.4.1.1.2 may be included as 3 of the 10 measurements. Average the ten measurements to obtain the control strip target density and target moisture for use in contractor elected method 4 in section C.1. Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

C.2.6 Department Testing

C.2.6.1 General

- (1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project and provide test results to the contractor within two business days after the department obtains the sample.
- (2) When a density target is determined in accordance methods 3 and 4 in section C.1, conduct density testing on same date of final compaction.

C.2.6.2 Quality Verification (QV) Testing

- (1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.2.3 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.
- (2) The department will conduct QV tests at the minimum frequency of 20% of the required gradation, density and Proctor contractor tests.
- (3) The department will utilize contractor's QC Proctor results for determination of the material target density. The department will verify QC Proctor values by testing QC Proctor split sample. The department will use QC Proctor value as a target density if the QC and QV Proctor test results meet the tolerance requirements specified in section C.2.6.2(7).

- (4) The department will locate gradation and nuclear density test samples, at locations independent of the contractor's QC work, collecting one sample at each QV location. Sampling for gradation may be done independently of nuclear density tests, before watering and before compacting. The department will split each QV sample, test half for QV, and retain the remaining half for 10 calendar days.
- (5) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.
- (6) The department will utilize control strip target density testing results in lieu of QV Proctor sampling and testing when the contractor elected target density method 4 in section C.1 is used.
- (7) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If QV test results are nonconforming, take corrective actions according to C.2.7 until the requirements of this special provision are met. Differing QC and QV nuclear density values of more than 2.0 pcf will be investigated and resolved. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.2.6.3 Independent Assurance (IA)

- (1) Independent assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:
 1. Split sample testing.
 2. Proficiency sample testing.
 3. Witnessing sampling and testing.
 4. Test equipment calibration checks.
 5. Requesting that testing personnel perform additional sampling and testing.
- (2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.2.6.4.

C.2.6.4 Dispute Resolution

- (1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor shall review the data, examine data reduction and analysis methods, evaluate sampling and testing methods/procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.
- (2) Production test results, and results from other process control testing, may be considered when resolving a dispute.
- (3) If project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.2.7 Corrective Action

- (1) Lots not achieving the minimum density requirements may be addressed and accepted for compaction according to the requirements of this section. Unless directed by the engineer, corrective actions taken to address an unacceptable lot must be applied to the entire lot corresponding to the non-conforming test.
- (2) Investigate the moisture content of material in an unacceptable lot. Moisture content testing/samples collected under the QC and/or QV testing articles of this specification may be used to complete this investigation. Obtain moisture content readings according to ASTM D 6938. For material composed of >20% RAP or RCA, correct the moisture content with the moisture correction value using the moisture bias, as shown in CMM 8.15.12.1 and 8.15.12.2, except the one-point Proctor tests of the 5 random tests is not required.

- (3) Lots with moisture contents within 2.0 percentage points of optimum moisture for target density methods 1, 2 and 3 in section C.1, or within 2.0 percentage points of the target moisture content for target density method 4 in section C.1, and exhibiting no signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, shall be compacted a minimum of one more pass using equipment and methods representative of the operations used to place and compact the Base Aggregate Dense 1 1/4-Inch, and density tested at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft³ continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft³, the lot is accepted as satisfying the compaction requirements of this provision.
- (4) Lots with moisture contents within 2.0 percentage points of optimum moisture for target density methods 1, 2, or 3 in section C.1, or within 2.0 percentage points of the target moisture content for target density method 4 in section C.1 and exhibiting signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, will be reviewed by the engineer. The engineer may request subgrade improvement methods, such as excavation below subgrade (EBS), installation of geotextile fabrics, installation of breaker run material, or others to be completed, or may request an additional pass of compactive effort using equipment and methods representative of the operations used to place and compact the base aggregate dense and density test.
1. If, after an additional pass, the change in density at the same location (station and offset) as the failing QC and/or QV density tests exceeds 2.0 lb/ft³ in a lot continue subsequent compactive efforts and density testing on that lot. If the change in density at the same location (station and offset) as the failing QC and/or QV density tests is less than or equal to 2.0 lb/ft³, and subgrade improvement methods are not requested by the engineer, the lot is accepted as satisfying the compaction requirements of this provision.
 2. If subgrade improvement methods are requested by the engineer, upon completion, including compaction of the restored base material, conduct a density test within the improved subgrade limits. This density test result will replace the prior field density value. If the lot field density equals or exceeds the minimum density requirement defined in section C.1, the lot is accepted as satisfying the compaction requirements of this provision. If the lot field density fails to achieve the minimum density requirement defined in section C.1, compact the lot a minimum of one more pass using equipment and methods representative of the operations used to place and compact the base aggregate dense; and density test at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft³ continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft³, the lot is accepted as satisfying the compaction requirements of this provision.
- (5) Unacceptable lots, with moisture contents in excess of 2.0 percentage points above or below optimum moisture for target density methods 1, 2 or 3 in section C.1; or in excess of 2.0 percentage points above or below the target moisture content for target density method 4 in section C.1; shall receive contractor performed and documented corrective action; including additional density testing.
- (6) Density tests completed subsequent to any corrective action will replace previous field density test results for that lot. Continue corrective actions until the minimum density requirement is achieved or an alternate compaction acceptance criteria is met according to this section.
- (7) Field moisture contents of materials tested using contractor elected target density methods 3 or 4 in section C.1 cannot exceed 2.0 percentage points of the optimum moisture content or 2.0 percentage points of the target moisture content, respectively. Density tests on materials using contractor elected target density methods 3 or 4 in section C.1 will not be considered for lot compaction acceptance until the moisture content of the corresponding density test of the in-place material is less than 2.0 percentage points above of the optimum moisture content or 2.0 percentage points of the target moisture content, respectively.

D Measurement

- (1) The department will measure the QMP Base Aggregate Dense 1 1/4-Inch Compaction bid item by each lot, acceptably completed per C.2.5.1.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH

- (2) Payment is full compensation for performing compaction testing; for sampling and laboratory testing; and for developing, completing, and documenting the compaction quality management program. The department will pay separately for providing aggregate under the Base Aggregate Dense 1 1/4-Inch bid item.
- (3) The department will pay for additional tests directed by the engineer. One engineer directed test is equal to one acceptably completed lot of the QMP Base Aggregate Dense 1 1/4 -Inch Compaction bid item. The department will not pay for additional corrective action tests required due to unacceptable material.

stp-370-010 (20191121)

34. HMA Paving.

Replace standard spec 450.3.2.1.1(1) with the following:

Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 36 F for upper layers or 32 F for lower layers unless the engineer allows in writing. The contractor shall place HMA pavement for projects in the northern asphalt zone between May 1 and October 15 inclusive and for projects in the southern asphalt zone between April 15 and November 1 inclusive. CMM 4-53 figure 2 defines asphalt zones. Notify the engineer at least one business day before paving.

Add the following to standard spec 450.3.2.5:

Pave northbound and southbound travel lanes on Calhoun Road in echelon as the staging plan allows.

35. 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)

36. Pipe Underdrain Unperforated 4-Inch, Item 612.0204.

Furnish Polyvinyl Chloride Drainage Pipe according to standard spec 612.2.5 or furnish Acrylonitrile-Butadiene-Styrene Drainage Pipe according to standard spec 612.2.7 for all installations of Pipe Underdrain Unperforated 4-Inch.

37. Removing Signs Type II, Item 638.2602.

Replace standard spec 638.3.4(2) and 638.3.4(3) with the following:

Type II signs are the city's property. Return signs to the City of Brookfield Highway Department, 19700 Riverview Drive, Brookfield, WI 53045.

Add the following to standard spec 638.5(2):

Payment for Removing Signs (type) includes salvaging, storing, and delivering signs to the City of Brookfield Highway Department.

38. Pond Liner Clay, Item 640.1303.S.

A Description

This special provision describes furnishing and installing clay liner in areas shown on the plans.

B Materials

For each source, prior to excavating and hauling the clay liner to the project, submit the results of the laboratory source screening tests described in Table 1. Laboratory test results of the clay must meet or exceed the requirements before placing material.

Submit source screening test results to the engineer for review, two weeks prior to clay placement.

C Construction

C.1 Clay Liner

C.1.1 Subgrade

Compact the subgrade to the minimum density using standard spec 207.3.6.2 Standard Compaction, or as otherwise specified in the contract requirements.

C.1.2 Erosion Protection

Do not place the clay liner until after all adjacent site grading has been completed and only after silt fence has been installed completely around the area of clay liner placement.

C.1.3 Clay Placement

After the fine grading is complete, place and compact clay liner in compacted 6-inch lifts. Place each lift of clay liner in one continuous lift. See plans for clay liner construction limits. Measure the thickness of the clay, as shown in the plans, perpendicular to the surface. Notify the engineer at least three days before starting construction of clay liner.

Table 1

Reference	Number	Test Title	Requirements	Testing Frequency	
				Source Screening	Project Testing
AASHTO ¹	T99-01	Moisture –Density Relationships of Soils Using a 2.5-kg (5.5 lb) Rammer a 305 mm (12-in.) Drop (Standard Proctor)	NA	1/source	NA
AASHTO	T-88-00	Particle Size Analysis of Soils	$P_{200}^3 \geq 50\%$	2/source	1/lift
AASHTO	T-89-02	Determining the Liquid Limit of Soils	$LL^4 \geq 22\%$	2/source	1/lift
AASHTO	T-90-00	Determining the Plastic Limit and Plasticity Index of Soils	$PI^5 \geq 12\%$	2/source	1/lift
AASHTO	T310-03	In-Place Density and Moisture Content of Soils and Soil-Aggregates by nuclear Methods (Shallow Depth)	$DD^6 \geq 95\%$ of the MDD ⁷	NA	100'x100' Grid/lift
ASTM ²	D5084-03	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	$K^8 \leq 1 \times 10^{-7}$ cm/sec	1/source ⁹	1/site ¹⁰

Notes:

1. AASHTO = American Association of State Highway and Transportation Officials
2. ASTM = American Society of Testing and Materials
3. P200 = Percent by weight passing the #200 sieve (%)
4. LL = Liquid Limit (%)
5. PI = Plasticity Index (%)
6. DD = Dry Density (pcf)
7. MDD = Maximum Dry Density (pcf) as determined by the Standard Proctor Test
8. K = Hydraulic Conductivity (cm/sec)
9. The sample for the test shall be remolded at a minimum dry density of 95% of the maximum dry density as determined by the Standard Proctor test and at a moisture content required to achieve the required hydraulic conductivity, but with a minimum moisture content at or above the optimum moisture content as determined in the Standard Proctor test.
10. An undisturbed sample from a thinned walled sampler (Shelby tube)

Compact the clay liner to a minimum of 95% Standard Proctor AASHTO T-99 Maximum Dry Density with footed compaction equipment having feet at least as long as the loose lift height. As needed, clay shall be disked or otherwise mechanically processed before compaction to break up clods and allow moisture content adjustment. Clod size shall be no greater than 4 inches. All compaction equipment utilized shall have a minimum static weight of 30,000 pounds.

Provide all equipment necessary to adjust clay liner to the proper moisture content for compaction.

Make sufficient number of passes of the compaction equipment over each lift of clay to ensure complete remolding of the clay.

Do not proceed with placement of additional lifts until all required clay liner testing and documentation has been completed for the previous lift.

During placement of the clay liner the minimum moisture content shall be as defined by the testing performed in the source screening evaluation and with the following limits:

- No drier than the optimum moisture content as determined by the Standard Proctor test.

If the in-place clay liner fails to meet the requirements of Table 1, then remove and replace or rework any portion of the clay liner not meeting the project requirements until project specifications are met. There shall be no compensation for removing, replacing and reworking clay not meeting the requirements in Table 1.

C.1.4 Project Testing and Acceptance

Perform all project testing at the frequency shown in Table 1 except for project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter, which will be done by the department. Record clay liner thickness on a 100 foot x 100 foot grid pattern.

Provide the following:

- Access for on-site testing, inspection, and documentation.
- Machinery required to grade/blade density test locations.
- Machinery required to collect undisturbed clay samples (i.e., with Shelby tubes).
- Replace and recompact clay material removed for testing purposes.

Perform sampling, testing, and documentation for project testing in Table 1, required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at each grading site during all clay liner placement, compaction, and sampling/testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

If an Assistant Certified Technician (ACT) is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

Perform all project testing with a department approved laboratory.

C.1.5 Department Testing

The department will perform the project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.

D Measurement

The department will measure Pond Liner Clay in volume by the cubic yards 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
640.1303.S	Pond Liner Clay	CY

Payment is full compensation for dewatering areas of site where the clay liner is to be placed; for furnishing, placing and compacting the clay liner; and for performing all tests.

39. Field Office.

Add the following to standard spec 642:

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

stp-642-010 (20200629)

40. Electrical Service Meter Breaker Pedestal.

Add the following to standard spec 656.2.3:

The city will be responsible for the electric service installation request for any city maintained facility.

Electric utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

Add the following to standard spec 656.3.4:

Install the cabinet base and meter breaker pedestal first, so the electric 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.

41. Signal Housings.

Replace standard spec 658.2(4) with the following:

For pedestrian signal faces: furnish polycarbonate resin housings, doors, and visors. Use yellow, Federal Standard 595 – FS13538, housings and dull black door faces and visors. For 16-inch heads, mount a z-crate visor and gasket to the door with stainless steel tabs. Drill the housing for top and bottom pipe mounting with the ability to rotate 270 degrees on the poly mounting brackets.

42. Traffic Signal Faces.

Add the following to standard spec 658.3:

⁽⁵⁾ Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

43. Stream Bed Medium, Item SPV.0035.01.

A Description

This special provision describes placing stream bed medium in culvert pipes as shown on the plans, according to the pertinent requirements of the standard specifications, and as hereinafter provided.

B Materials

Furnish Riprap Light that is according to the pertinent requirements of standard spec 606.

Furnish Coarse Aggregate Size No 2 that is according to the pertinent requirements of standard spec 501.2.5.4.4. The soundness and wear requirements are deleted from this material.

Furnish Grade 1 Granular Backfill that is according to the pertinent requirements of standard spec 209.2.

C Construction

Place Riprap Light in the culvert pipe according to standard spec 606.3. Backfill the Riprap Light with Coarse Aggregate Size No 2 according to standard spec 209.3. Backfill the Riprap Light and Coarse Aggregate Size No 2 with Grade 1 Granular Backfill according to standard spec 209.3.

D Measurement

The department will measure Stream Bed Medium by the cubic yard in place, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Stream Bed Medium	CY

Payment is full compensation for furnishing and installing the riprap, coarse aggregate, and granular backfill.

44. Riprap Medium with Field Stone Veneer, Item SPV.0035.02; Riprap Heavy with Field Stone Veneer, Item SPV.0035.03.

A Description

This special provision describes providing and installing riprap with field stone (non-sedimentary rock) veneer as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials according to standard spec 606.2, except as modified as follows:

Provide a top-dressing veneer of non-sedimentary cobblestone or fieldstone type, approved by the engineer. The stones shall be sound, hard, dense, resistant to the action of air and water, and free from seams, cracks, or other structural defects. The engineer must review and approve the stone before the contractor places it on-site.

The average dimension size range for riprap shall conform to the applicable sizes found in the standard spec 606.2.

The average dimension size range for all field stone shall conform to light riprap as found in the standard spec 606.2.

C Construction

The contractor may place medium and heavy riprap by hand or mechanical means. Hand place smaller stones to fill large voids and to correct segregated areas. Place riprap over geotextile fabric, type HR, conforming to standard spec 645.3.1.7.

Place a top-dressing veneer of field stone over the riprap quarry stone. Field stone veneer shall be placed in a manner that obscures most of the quarry stone.

D Measurement

The department will measure Riprap Medium with Field Stone Veneer and Riprap Heavy with Field Stone Veneer by the cubic yard acceptably completed, measured as the volume within the limiting dimensions the contract designates or the engineer establishes in the field.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Riprap Medium with Field Stone Veneer	CY
SPV.0035.03	Riprap Heavy with Field Stone Veneer	CY

Payment is full compensation for preparing the bed, providing and placing riprap and field stone veneer, and restoring adjacent work. The department will pay for excavation in excess of the approximate volume of earth occupied by the field stone riprap under the Excavation Common bid item as specified under standard spec 205.5.

45. Concrete Cutoff Wall, Item SPV.0060.01.

A Description

Perform work according to the applicable provisions of standard spec 504 and as detailed in the plans.

B Materials

Provide concrete according to the applicable provisions of standard spec 504 and as detailed in the plans. Provide high strength galvanized steel adhesive anchors and washers according to the applicable provisions of standard spec 502.2.12 and as detailed in the plans.

C Construction

Drill bolt holes in the locations shown on the plans after the concrete in the concrete cutoff wall is cured and use adhesive anchors to secure the endwall to the cutoff wall. Maintain existing drainage and provide any dewatering necessary for the work.

D Measurement

The department will measure Concrete Cutoff Wall as each individual concrete cutoff wall, 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	Concrete Cutoff Wall	EACH

Payment is full compensation for all excavation and preparation; for providing all equipment and materials, including concrete, reinforcing steel, and adhesive anchors; for placing, finishing, protecting and curing; for maintaining drainage and dewatering; for disposing of surplus excavation material; and for restoring the work site.

46. Catch Basins 8-FT Diameter, Item SPV.0060.02.

A Description

Construct catch basin as shown on the plans, as directed by the engineer according to the applicable provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish Catch Basin 8-FT according to standard spec 611.2.

C Construction

Construct Catch Basin 8-FT according to standard spec 611.3.

D Measurement

The department will measure Catch Basin 8-FT 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	Catch Basins 8-FT Diameter	EACH

Payment is full compensation for providing all materials, including all masonry, storm sewer connections, steps or other fittings; for all excavation, backfilling, and properly disposing of surplus materials; for cleaning out and restoring the work

The department will pay for covers, including frames, grates and lids separately.

**47. Pond Outlet Control Structure 7-FT Diameter, Item SPV.0060.03;
Pond Outlet Control Structure 8-FT Diameter, Item SPV.0060.04.**

A Description

Furnish and install a Pond Outlet Control Structure according to the pertinent provisions of standard spec 611, as shown on the plans, and as hereinafter provided. Furnish and install a trash rack on the outlet control structure and according to the pertinent provisions of standard spec 506 and 513, as shown on the plans and as hereinafter provided. Provide orifice holes and PVC pipe and fittings as shown on the plan. Provide concrete to fill the bottom of the structure as shown on the plans.

B Materials

Furnish manhole materials according to standard spec 611.

Furnish concrete according to applicable provisions of standard spec 501.

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel galvanizing according to ASTM A123 and ASTM 1153 as applicable.

Trash rack shall be fabricated from structural steel shapes, flat bar and plates, and shall be galvanized after fabrication. Shop drawings for the trash rack shall be submitted to the engineer for approval prior to fabricating the trash rack.

Furnish bolts, nuts and washers for the installation of the trash rack onto the outlet control structure according to standard spec 513.2.1.

C Construction

Construct Pond Outlet Control Structures according to the applicable provisions standard spec 611.3.

D Measurement

The department will measure Pond Outlet Control Structure as each individual structure, 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.0060.03	Pond Outlet Control Structure 7-FT Diameter	EACH
SPV.0060.04	Pond Outlet Control Structure 8-FT Diameter	EACH

Payment is full compensation for providing and placing all materials, including all masonry, steel and pipe connections, and other fittings; furnishing and installing trash rack; for providing orifice hole, PVC, and fittings; for furnishing, placing, protecting and curing concrete to fill the structure bottom; for furnishing all excavating, backfilling, disposing of surplus material, and cleaning out of structure.

Work associated with constructing the clay anti-seep collar will be paid for separately.

48. Clay Anti-Seep Collar, Item SPV.0060.05.

A Description

This special provision describes furnishing and installing low permeable clay around pipes at pond outlet control structures at the locations shown on the plans.

B Materials

Furnish materials and testing of materials as specified in Item 640.1303.S of these special provisions.

C Construction

Construct clay anti-seep collars to the locations and extents as shown in the plans.

Construct, place, and compact clay for anti-seep collars as specified in Item 640.1303.S of these special provisions.

D Measurement

The department will measure Clay Anti-Seep Collar as each individual clay anti-seep collar, 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.0060.05	Clay Anti-Seep Collar	EACH

Payment is full compensation for dewatering areas of site where the low permeable clay is to be placed; for furnishing and placing and compacting the low permeable clay.

49. Construction Staking Pond Layout, Item SPV.0060.06

A Description

This special provision describes staking the layout for the stormwater ponds. Conform to standard spec 105.6 and 650 and as hereinafter provided.

B (Vacant)

C Construction

Conform to standard spec 650.3.13 to stake the alignment of the pond.

D Measurement

The department will measure Construction Staking Pond Layout as each individual pond alignment, 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	Construction Staking Pond Layout	EACH

Payment is full compensation for staking and maintaining alignment reference for the pond.

50. Traffic Signal Controller and Cabinet, Item SPV.0060.07.

A Description

This specification describes furnishing an operational NEMA TS2 Type 2 traffic signal control cabinet ready for testing by the department and subsequent installation.

B Materials

B.1 General

Furnish and install equipment and assemble the cabinet conforming to the latest revision of NEMA Standards Publication TS 2 Version 2.06 (R2008), *Traffic Controller Assemblies with NTCIP Requirements*, National Electrical Manufacturers Association, hereinafter called NEMA TS2 Standard, except where modified in this specification. Conform all work to the Wisconsin State Electrical Code (WSEC). Conform all work to standard spec 651 of the Wisconsin Standard Specifications for Highway and Structure Construction, 2021 Edition, as supplemented or modified in this specification.

Provide cabinets designed for TS2 Type 2 operation. Pre-wire cabinets for a minimum of sixteen phases as specified herein.

All equipment, materials, and cabinet features shall be the same type, make, and model on all cabinets delivered under any one order.

Furnish and install at no extra cost any equipment and materials not specifically described but required in order to perform the intended functions in the cabinet.

Provide arc flash protection within the cabinet as needed to satisfy NFPA 70E and OSHA requirements.

B.2 Cabinet

B.2.1 Design

Furnish a door-in-door ground mounted (without anchor bolts) aluminum cabinet of clean-cut design and appearance. Provide a cabinet of minimum size 44 inches wide, minimum 24 inches deep and minimum 52 inches to maximum 60 inches high. The size of the cabinet shall provide ample space for housing the controller, all of the associated devices which are to be furnished with the controller, all other auxiliary devices herein specified, and all equipment to be furnished and installed by others.

The cabinet shall comply with the environmental and operating standards outlined in the NEMA TS2 Standard. The cabinet shall provide reasonable vandalism protection. The cabinet shall have a NEMA 3R rating.

Construct the cabinet from type 5052-H32 aluminum with a minimum thickness of 0.125 inches. Furnish the cabinet with a natural, uncoated, aluminum finish inside and outside. Continuously weld all seams. The surface shall be smooth, free of marks and scratches. Use stainless steel for all external hardware.

On the top of the cabinet, incorporate a 1-inch slope toward the rear to prevent rain accumulation. Incorporate a rain channel into the design of the main door opening to prevent liquids from entering the enclosure.

Include an exhaust plenum with a vent screen into the roof of the cabinet. Perforations in the vent screen shall not exceed 0.125 inches in diameter. Insulate the remaining area of the roof of the cabinet with a moisture resistant rigid foam board insulation with a minimum R value of 4.0 that can be perforated for an antenna.

Equip the lower section of the cabinet door with a louvered air entrance. The air inlet shall be large enough to allow sufficient air flow per the rated fan capacity. Louvers must satisfy the NEMA rod entry test for Type 3R ventilated enclosures. Secure a washable, aluminum, removable air filter to the air entrance. The filter shall fit snugly against the cabinet door wall. Attach an aluminum, easily removable, gasketed cover over the air filter and louver.

B.2.2 Doors

The cabinet door opening shall be a minimum of 80 percent of the front surface of the cabinet. The main door and police door-in-door shall each close against a weatherproof and dust-proof, closed-cell neoprene gasket seal. The gasket material for the main door shall be a minimum of 0.188 inches thick by 1.00 inch wide. The gasket material for the police door shall be a minimum of 0.188 inches thick by 0.500 inches wide. Permanently bond the gaskets to the cabinet.

Equip the main door with a three-point latching mechanism. The upper and lower locking points of the latching mechanism shall each have a pair of nylon rollers. The handle on the main door shall utilize a shank of stainless steel 3/4 inches minimum diameter. The handle shall include a hasp for the attachment of an optional padlock. The cabinet door handle may turn either clockwise or counterclockwise to open and shall not extend outwards past the edge of the door at any time. Position the lock assembly so the key will not cause any interference with the handle, or a person's hand on the handle, when opening the cabinet door.

Include on the main door a solid stainless steel rod stop and catch mechanism capable of rigidly holding the door open at approximately 90, 120, and 180 degrees under windy conditions. The operator must be able to engage and disengage the catch with a shoed or booted foot.

The main door hinge shall be a one-piece, continuous piano hinge with a minimum 0.25 inch stainless steel pin running the entire length of the right side of the door (right-handed). Attach the hinge in such a manner that no rivets or bolts are exposed.

Equip the main door with a brass Corbin tumbler lock No. 2, swing away dust cap.

Electrically bond the door to the rest of the cabinet with a braided copper grounding conductor. The length of the grounding conductor shall allow the door to swing fully open, without using the stop bar, without stretching or breaking the grounding conductor. The grounding conductor shall not interfere with normal door operation.

Provide a door switch for the main cabinet door. When the door is opened the switch shall send a signal to the controller sufficient for the controller to log an alarm.

B.2.3 Shelves and Mountings

Mount a minimum of three vertical "C" channels on each interior side wall of the cabinet for the purpose of mounting the cabinet components. The channels shall accommodate spring mounted nuts or studs. Install three vertical "C" channels or three slotted rails on the interior back wall of the cabinet. All mounting channels and rails shall extend to within 7 inches of the top and bottom of the cabinets and shall be of sufficient strength to rigidly hold specified shelves and equipment.

Provide two full-width, 11-inch deep, fully adjustable, aluminum shelves to support the controller and other equipment. Mount the lower shelf at a height above the bottom of the cabinet such that the shelf and attached drawer does not interfere with the ability to tilt the terminal facility forward on its hinges for maintenance purposes. Mount the top shelf at least 13 inches above the surface of the lower shelf.

Provide Siemens M62 controller and EDI MMU2. Locate on the lower shelf. Locate the loop detector racks and other auxiliary equipment on the top shelf. The power supply may be mounted on either shelf.

Provide an under-shelf drawer beneath the lower shelf. The drawer shall be approximately 20 inches wide and a minimum of 12" deep. The drawer shall operate easily and smoothly and shall have a stop to prevent inadvertently pulling the drawer out of its support. Design the stop to allow purposeful complete removal of the drawer without the use of tools. Provide a slide out shelf capable of supporting a 5 pound, 14" wide by 11" deep load. This slide out support can be the cover for the drawer, as long as it extends far enough out to support the entire 11" depth of the laptop.

Provide a fully wired receptacle on the door that is specifically designed to support the twist and lock style plug specified for the heater element. Locate receptacle such that when installed, heater should be mounted a minimum of 6.5" from the bottom of the door.

B.2.4 Auxiliary Cabinet Equipment

Ventilate the cabinet by means of a 120 VAC, 60HZ, tube axial compact type fan located in the top of the cabinet plenum. The fan's free delivery airflow shall be equal to or greater than 100 cubic feet per minute. The magnetic field of the fan motor shall not affect the performance of control equipment. The fan bearings shall operate freely. The fan unit shall not crack, creep, warp, or have bearing failure within a seven year duty cycle. The maximum noise level shall be less than 40 decibels. The fan unit shall be corrosion resistant. The thermostat's turn on setting shall be adjustable from 90 to 120 degrees F. The fan

shall run until the cabinet temperature decreases below the turn-on temperature setting by approximately 30 degrees F. The fan shall be fused.

Mount a single LED light strip (GESS32-13200K or approved equal) at the top of the cabinet and the appropriate power supply to support up to four (4) light strip panels. Wire the power supply to an ON/OFF toggle switch. Mount two LED light strips under the lower shelf fed off the power supply on the top of the cabinet. Locate one strip on each side of the drawer.

Provide a thermostat with an adjustable setting from 0 to 100 degrees F. Install the thermostat on the interior ceiling of the cabinet well away from the cabinet light or any heat source. Provide a thermal limit switch to prevent the heater's protective cover from exceeding 170 degrees F.

B.3 Terminals and Facilities

Terminal Facility

The terminal facility panel shall be constructed from 5052-H32 brushed aluminum of 0.125 inches minimum thickness and formed so as to eliminate any flexing when plug-in components are installed.

Mount the bottom of the terminal facility a minimum of nine inches from the bottom of the cabinet. Hinge the terminal facility at the bottom to allow easy access with simple tools to all wiring on the rear of the panel. It shall not be necessary to remove the lower shelf, the shelf drawer, or any shelf-mounted equipment to hinge down the terminal facility. Provide sufficient slack in the load bay wiring to allow for dropping the load bay.

Fully wire the terminal facility with sixteen load switch sockets: eight phases of vehicular, four phases of pedestrian, and four phases of overlap operation; eight flash transfer relay sockets; one flasher socket; and two terminal facility Bus Interface Unit (BIU) rack slots. The use of printed circuit boards is not acceptable on the terminal facility, except printed circuit boards are acceptable for the BIU interface with the load bay. Position the 16 load switch sockets in two horizontal rows of eight sockets each. Support the load switches and flasher by a bracket or shelf extending at least three inches from the terminal facility.

Label all terminals, load switches, and flash transfer relay sockets. Label reference designators by silk-screening on the front and rear of the terminal facility to match drawing designations.

Provide rack mounted BIU's. Provide a dual-row, 64-pin female DIN 41612 Type B connector for each BIU rack position. Provide card guides for both edges of the BIU. Terminal and facilities BIU mounting shall be an integral part of the terminal facility.

Provide one 16-channel, 8-position, TS2 detector rack, with an integrally mounted BIU mounting. Rack shall be addressable. Power the detector rack by the cabinet power supply. Fasten the loop detector racks towards the left side of the top shelf. Additional racks shall be treated as add-on items.

For BIU rack connectors, provide pre-wired address pins or jumper plugs corresponding to the requirements of the NEMA TS2 Standard. The address pins or jumper plugs shall control the BIU mode of operation. BIUs shall be capable of being interchanged with no additional programming.

For the terminal facility, contain all field wires within one or two rows of horizontally-mounted Marathon (or approved equal) heavy duty terminal blocks. Terminate all field output circuits on an unfused terminal block with a minimum rating of 10 amps. Use mechanical connector lugs rated for copper wire. Angle the lower section of the terminal block out from the back of the cabinet at approximately a 45 degree angle.

Identify all field input/output (I/O) terminals by permanent alphanumeric labels. All labels shall use standard nomenclature per the NEMA TS2 Standard.

All field flash sequence programming at the field terminals shall be able to be accomplished with the use of only a screwdriver.

Wire field terminal blocks to use three positions per vehicle or overlap phase (green, yellow, red).

Wire one RC network in parallel with each flash transfer relay coil.

Permanently label all logic-level, NEMA-controller and MMU input and output terminations on the terminal facility. Identify the function of each terminal position on the cabinet drawings.

Terminal blocks for DC signal interfacing shall have a number 6-32 x 7/32 inch screw as minimum. Functions to be terminated shall be as specified in the listing of Input/ Output Terminals in Section 5 of the NEMA TS2 Standard.

Conform all terminal facility and cabinet wiring to the Wisconsin State Electrical Code (WSEC). The green/ walk, yellow, and red/ don't walk load switch outputs shall be minimum 16 gauge wire. The MMU2 (other than AC power), controller I/O, and logic ground shall be minimum 22 gauge wire. All wire colors shall be consistent in all cabinets furnished in one order.

B.4 Auxiliary Panels

Vehicle Detection Interface Panel

Provide a 32-position interface panel or two 16-position panels. Each interface panel shall allow for the connection of 32 or 16 independent field loops, respectively. The panels shall have barrier strip type terminals using 8-32 screws and be rated for 20 inch pounds of torque.

Provide a ground bus terminal between each loop pair terminal to provide a termination for the loop lead-in cable ground wire. Secure the interface panels to a mounting plate attached to the left interior side wall of the cabinet.

Provide a cable consisting of 20 AWG twisted pair wires to enable connection to and from the interface panel to a detector rack. The twisted pair wires shall be color-coded wires. Provide a cable of sufficient length to allow the detector rack to be placed on either shelf.

Provide a pathway or mechanism for securing loop lead in cables neatly next to interface panel.

Identify all termination points by a unique number silk screened on the panel.

B.5 Conductors and Cabling

All conductors in the cabinet shall be copper 22 AWG or larger. All 14 AWG and smaller wire shall conform to MIL-W-16878/1, Type B, 600V, 19-strand tinned copper. The wire shall have a minimum of 0.010 inches thick PVC insulation without clear nylon jacket and rated to 105 degrees Celsius. All 12 AWG and larger wire shall be UL or NRTL listed THHN/THWN 90 degrees Celsius, 600V, 0.020 inches thick PVC insulation, and clear nylon jacketed.

Provide controller and MMU2 cables of sufficient length to allow the units to be placed on either cabinet shelf in the operating mode. Connecting cables shall be sleeved in a braided nylon mesh. Exposed tie-wraps and interwoven cables are unacceptable.

Provide the cabinet configuration with enough SDLC RS-485 Port 1 communication cables to allow full capabilities of that cabinet. Each communication cable connector shall be a 15-pin metal shell D subminiature type. The cable shall be a shielded cable suitable for RS-485 communications. Secure all connecting cables and wire runs by mechanical clamps. Stick-on type clamps are not acceptable.

Pre-wire the terminal facility for a Type 16 MMU2.

All wiring shall be neat in appearance. Stow excess cable behind the terminal facility or below the shelves in order to allow easy access to the terminal facility and cabinet components. All cabinet wiring shall be continuous from its point of origin to its termination point. Butt type connections/splices are not acceptable.

Wire the grounding system in the cabinet into three separate circuits: AC Neutral, Earth Ground, and Logic Ground.

Optoisolate all pedestrian pushbutton inputs from the field to the controller through the BIU and operate at 12 VAC.

Hook or loop all wire, size 16 AWG or smaller, at solder joints around the eyelet or terminal block post prior to soldering to ensure circuit integrity. Lap joint soldering is not acceptable.

B.6 Cabinet Switches

Locate the following switches on a maintenance panel on the inside of the cabinet door:

- a. Controller On/Off
- b. Stop Time (Three Position)

<u>Position</u>	<u>Switch Label</u>	<u>Function</u>
Upper	Stop Time	Place stop time on the controller
Center	Run	Remove the stop time input to the controller
Lower	Normal	Connects the MMU2 to the controller stop time input

Locate the following switches behind the police access door:

- a. Signal/Off
- b. Flash/Normal
- c. Hand/ auto
- d. Coiled hand control and cable

The above switches shall function as follows:

- Off: Signals Dark
- Signal: Signals On and operating as follows:

Auto

Flash: Signals Flash
Normal: Signals Normal

Hand

Signals Flash
Signals Advance by use of hand control

B.7 Power Panel

Design

The power panel shall consist of a separate module, securely fastened to the interior right side wall of the cabinet. Wire the power panel to provide the necessary power to the cabinet, controller, MMU2, cabinet power supply, and all auxiliary equipment. Manufacture the power panel from 0.090-inch, 5052-H32 aluminum. Panel layout shall facilitate field inspection and maintenance accessibility without excessive disassembly or special tools.

Provide a light, tough, transparent, weather-resistant, non-yellowing, thermoplastic cover, rigidly mounted over the full power panel, with access holes for circuit breakers and other equipment, and open on the sides for ventilation.

All components of power panel shall meet or exceed the electrical requirements as laid out in section 5.4 of the NEMA TS2 Standard.

Provide all necessary components for a battery backup system to be retrofit into the cabinet without needing to make changes to the wiring of the power panel. Battery Backup system will support only essential equipment in the cabinet. Fan, heater, and lighting panel are examples of non-essential equipment not expected to be supported by the battery backup system.

Do not install a jumper between the equipment ground and neutral. Instead, provide this bonding jumper in a separate package labeled "For Grounding Purposes."

B.8 Grounding System

On each side of the cabinet, provide a minimum 20-position neutral bus bar capable of connecting three #12 AWG wires per position.

Also on each side of the cabinet, provide a minimum 20-position equipment ground bus bar capable of connecting three #12 AWG wires per position. Install this bus bar below the neutral bus bar.

B.9 Power receptacles

Mount a 120 VAC 20 amp, NEMA 5-20R GFCI convenience outlet on the interior right side wall above or as part of the power panel. The outlet shall be fully operational and fuse protected.

Mount a 2-gang outlet on each side of the cabinet. Both of these outlets should be wired off the circuit breaker fed off the surge protector.

B.10 Auxiliary Devices

B.10.1 Flashers

Provide one solid state flasher conforming to the requirements of section 6.3 of the NEMA TS2 Standard.

B.10.2 Flash Transfer Relays

Provide four flash transfer relays conforming to the requirements of section 6.4 of the NEMA TS2 Standard.

B.10.3 Cabinet Power Supply

Provide one cabinet power supply with each cabinet conforming to the requirements of section 5.3.5 of the NEMA TS2 Standard. Provide LED indicators for the 12 VDC, 12 VAC, and 24 VDC outputs. Provide jack plugs on the front panel for access to the +24 VDC for test purposes.

B.10.4 Bus Interface Units (BIU)

Provide three BIUs conforming to the requirements of section 8 of the NEMA TS2 Standard. Provide two BIUs with the main panel and one BIU with one of the detector racks.

B.11 Documentation

Cabinet Intersection Wiring Diagrams

At the time of the cabinet delivery, furnish with the cabinet three sets of printed 22X34-inch wiring diagrams.

C Construction (Vacant)

D Measurement

The department will measure Traffic Signal Controller and Cabinet as a single unit for each cabinet, 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.0060.07	Traffic Signal Controller and Cabinet	EACH

Payment is full compensation for furnishing and installing a complete traffic signal cabinet, including the signal controller and conflict monitor together with cabinet, all required control units, all necessary wiring, switches, and fittings to assure that the controller will perform the functions required in the plans.

51. Remove Water Valve Extension, Item SPV.0060.08.

A Description

This special provision describes removing water valve nut extensions from existing valves throughout this project at locations identified in the plans.

B Materials

Existing water valve boxes and lids shall be reused.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Contractor shall remove valve extension rods of various lengths attached to the water valve nuts at locations identified in the plans.

Contractor shall excavate water valve box to depth required to remove extension rod from nut. Contractor shall reuse existing water valve box and shall backfill with the necessary material described below.

Contractor shall backfill in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within 5 feet of the edge of such surfaces or shoulders with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Upon completion of the contract, the city will inspect the water valves identified for extension removal to ensure that the water valve extension rods were adequately removed, and existing water valve boxes reinstalled correctly. The contractor shall be responsible to make identified repairs.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Remove Water Valve Extension as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Remove Water Valve Extension	EACH

Payment is full compensation for all excavation, backfilling to top of subgrade, disposal of surplus materials, removal of water valve extension rod, and associated accessories, reinstallation of the existing water valve box, and restoration of the work site.

52. Replace Water Valve Box, Item SPV.060.09.

A Description

This special provision describes replacement of water valve boxes on existing valves throughout this project at locations identified in the plans.

It shall also include all requirements described under the Adjust Water Valve Box section of these special provisions.

B Materials

Water valve boxes and lids shall be Tyler 6860, Star Pipe Products three-piece cast iron valve box, or approved equal.

Valve boxes shall be furnished with a valve adaptor with gasket as manufactured by Adaptor, Inc.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Contractor shall remove and replace water valve boxes on various gate and butterfly valves at locations identified in the plans. This shall also include the installation of a new valve adaptor.

Contractor shall excavate water valve box to depth required to remove the existing valve box and adaptor. Contractor shall install a new valve box and adaptor and shall backfill with the necessary material described below.

Contractor shall backfill in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Upon completion of the contract, all water valve boxes shall be set to finish grade and shall have a minimum of 2-inches adjustment up and down, shall be fully operable, and plumb. This shall be checked by the city inspector and contractor prior to acceptance. Deviations both vertical and horizontal from center of operating nut in excess of 1-inch shall not be acceptable. The contractor shall be responsible to make identified repairs.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three (3) days prior to work being performed.

D Measurement

The department will measure Replace Water Valve Box as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Replace Water Valve Box	EACH

Payment is full compensation for all excavation, backfilling to top of subgrade, disposal of surplus materials, removal of the water valve box, adaptor, and associated accessories, reinstallation of a new water valve box, adaptor, any necessary adjustments to proposed elevations, and restoration of the work site.

53. 6-Inch Gate Valve and Box, Item SPV.0060.10; 12-Inch Gate Valve and Box, Item SPV.0060.11.

A Description

This special provision describes the removal of an existing water valve and/or installation of a new valve at locations designated in the plan.

B Materials

Gate valves shall be smooth bore resilient seat gate valves. They shall be Kennedy Ken-Seal, Clow F-6100, Mueller 2360-20, or approved equal. All gate valves shall have stainless steel nuts and bolts. Gate valves shall meet the requirements of section 8.27.1 of the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition and all amendments. Valves shall open left.

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Mega lug retainer glands shall be installed at all fittings locations. The cost for fittings shall be incidental.

Gate valve boxes and lids shall be Tyler 6960, Star Pipe Products three piece cast iron valve box, or approved equal.

Gate valves shall be furnished with a valve adaptor with gasket as manufactured by Adaptor, Inc.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Install gate valves with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

Gate valves, boxes, and valve adaptors shall be installed according to Section 4.8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Remove the existing valve and install a gate valve as specified in the plan. Contractor shall connect the new gate valve to the existing water main. This connection shall include, but not be limited to, locating, excavating, draining down and cutting into the existing pipe. It shall also include the removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection. The valve shall be returned to the City of Brookfield Water utility unless otherwise directed by the engineer. Any water main appurtenances that the engineer determines is not worth salvaging shall be come property of the contractor and shall be removed from the project.

All pipe, fittings, valves, and appurtenances shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

A valve adaptor shall be set on the gate valve.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

The City of Brookfield shall be allowed to operate existing valves during construction unless otherwise approved by the engineer.

Upon completion of the contract, all valve boxes shall be set to finish grade and shall have a minimum of 2-inches adjustment up and down, shall be fully operable, and plumb. This shall be checked by the city inspector and contractor prior to acceptance. Deviations both vertical and horizontal from center of operating nut in excess of 1-inch shall not be acceptable. The contractor shall be responsible to make identified repairs.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure (size) Gate Valve and Box 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.0060.10	6-Inch Gate Valve and Box	EACH
SPV.0060.11	12-Inch Gate Valve and Box	EACH

Payment is full compensation for excavation, backfilling to the top of the subgrade, disposal of surplus materials, removal of the existing valve, piping, fittings, valve box, adaptor, and associated accessories, connections to the existing water main, reinstallation of a new gate valve and box, adaptor, and restoration of the work site.

54. 16-Inch Butterfly Valve and Box, Item SPV.0060.12.

A Description

This special provision describes the removal of an existing water valve and/or installation of a new valve at locations designated in the plan.

B Materials

Butterfly valves shall be Clow, Pratt Groundbhog, M&H 450 or Mueller Linesal III. All butterfly valves shall have stainless steel nuts and bolts. Butterfly valves shall meet the requirements of section 8.28.0. of the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition and all amendments. Valves shall open left.

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Mega lug retainer glands shall be installed at all fittings locations. The cost for fittings shall be incidental.

Valve boxes and lids shall be Tyler 6960, Star Pipe Products three piece cast iron valve box, or approved equal.

Butterfly valves shall be furnished with a valve adaptor with gasket as manufactured by Adaptor, Inc.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Install butterfly valves with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

Butterfly valves, boxes, and valve adaptors shall be installed according to Section 4.8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Remove the existing valve and install a 16-inch butterfly valve as specified in the plan. Contractor shall connect the new butterfly valve to the existing water main. This connection shall include, but not be limited to, locating, excavating, draining down and cutting into the existing pipe. It shall also include the removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection. The valve shall be returned to the City of Brookfield Water Utility unless otherwise directed by the engineer. Any water main appurtenances that the engineer determines is not worth salvaging shall be come property of the contractor and shall be removed from the project.

All pipe, fittings, valves, and appurtenances shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

A valve adaptor shall be set on the 16-inch butterfly valve.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

The City of Brookfield shall be allowed to operate existing valves during construction unless otherwise approved by the engineer.

Upon completion of the contract, all valve boxes shall be set to finish grade and shall have a minimum of 2-inches adjustment up and down, shall be fully operable, and plumb. This shall be checked by the city inspector and contractor prior to acceptance. Deviations both vertical and horizontal from center of operating nut in excess of 1-inch shall not be acceptable. The contractor shall be responsible to make identified repairs.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure 16-inch Butterfly Valve and Box 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.0060.12	16-Inch Butterfly Valve and Box	EACH

Payment is full compensation for excavation, backfilling to the top of the subgrade, disposal of surplus materials, removal of the existing valve, piping, fittings, valve box, adaptor, and associated accessories, connections to the existing water main, reinstallation of a new gate valve and box, adaptor, and restoration of the work site.

- 55. 6-Inch Water Main Offset, Item SPV.0060.14;
8-Inch Water Main Offset, Item SPV.0060.15;
12-Inch Water Main Offset, Item SPV.0060.16;
16-Inch Water Main Offset, Item SPV.0060.18.**

A Description

Furnish and install a water main offset as shown Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 47, where required to provide proper clearance (18" minimum separation required) between the water main and a storm sewer/catch basin or other structure. Note following modification to File No. 47: use restrained joints instead of rods. The 6-Inch water main offsets also pertain to services and hydrant leads.

B Materials

The water main offset shall be constructed of AWWA C900 PVC pipe and ductile iron fittings (polyethylene encased) and restrained joints.

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

The contractor shall first excavate to expose the existing water main, determine the depth, and coordinate with the City Engineer to determine if an offset is necessary. Construct the water main offset per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 47. Note following modification to File No. 47: use restrained joints instead of rods.

The contractor shall contact affected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Install water main offsets with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The water main offset shall be insulated according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

The contractor shall connect the new water main offset to the existing water main. This connection shall include, but not be limited to, locating, excavating, draining down, and cutting into the existing pipe. It shall also include the removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection.

All water main offsets shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be connected to the existing tracer wire installed with the in-place water main on either side. This splice shall be made utilizing SnakeBite water proof connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material for the water service offset installation shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches for the water service offset installation in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill to the bottom of the storm sewer for which the offset is required.

All trenches for the water service offset installation within the terrace area shall be backfilled with native material to the bottom of the storm sewer for which the offset is required.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure (size) Water Main Offset by each unit, acceptably completed. The offset shall include all pipe and 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.0060.14	6-Inch Water Main Offset	EACH
SPV.0060.15	8-Inch Water Main Offset	EACH
SPV.0060.16	12-Inch Water Main Offset	EACH
SPV.0060.18	16-Inch Water Main Offset	EACH

Payment is full compensation for furnishing labor, materials, excavation, necessary removals, bedding, pipe laying, fittings, connections to the existing water main, sheathing, shoring, dewatering, backfill to the bottom of storm sewer for which the offset is required, testing, and incidentals necessary to complete work. Insulation will be paid for separately at its respective unit bid price.

56. 12-Inch Water Main Offset with 24-Inch Steel Casing, Item SPV.0060.17.

A Description

Furnish and install a water main offset with 24-inch Steel Casing as shown in the plans between Station 232+29 and Station 233+22 and under storm Structure B-67-380.

The water main offset shall meet the requirements of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 47 and these Special Provisions. NOTE: following modification to File No. 47: use restrained joints instead of rods.

The steel casing pipe shall meet the requirements of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 49 and these Special Provisions.

B Materials

The water main offset both inside and outside the casing shall be constructed of AWWA C900 PVC pipe and ductile iron fittings (polyethylene encased) and restrained joints.

The pipe shall be supported with 2"x6" wood blocking or approved equal as shown in the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 49. The annular space between the PVC pipe and the casing shall be filled with sand.

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 49.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

The water main offset shall be installed after the temporary storm diversion pipes are in place and before the installation of storm Structure B-67-380.

Construct the water main offset per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 47. Note following modification to File No. 47: use restrained joints instead of rods.

Construct the steel casing pipe per the Standards Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The contractor is responsible for any necessary dewatering. This shall be completed as part of the dewatering operation for storm Structure B-67-380.

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Install water main offsets with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The water main offset shall be insulated according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

The water main offset and piping shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be connected to the existing tracer wire installed with the in-place water main on either side. If no tracer wire exists, then it shall be brought to the surface at the connections as directed by the engineer. This splice shall be made utilizing SnakeBite water proof connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material for the water main offset installation shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches for the water main offset installation in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill to the bottom of the storm sewer for which the offset is required.

All trenches for the water main offset installation within the terrace area shall be backfilled with native material to the bottom of the storm sewer for which the offset is required.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Disinfect newly installed water main and appurtenances according to AWWA C651. Flush system within 24 hours after disinfection is completed. After final flushing obtain 2 sets of samples taken a minimum of 24 hours apart. Each sample set shall include one sample for every 1200 feet of main and one sample of each dead-end. Ensure that 1 sample is obtained from each branch of the main. Rechlorinate if any sample tests positive for coliform.

Water Main pressure testing shall not be performed until 7 days have passed since the last buttress was poured. If earlier testing is desired, the contractor may, at his option and cost substitute Class "A" Concrete or high early strength concrete for the Class "F" concrete specified for buttresses. Should either option be selected, the testing may be performed no sooner than 48 hours after the last buttress was poured. Concrete tickets showing the mix design and any additives shall be submitted to the engineer.

The new water main shall be physically isolated from the existing water system as shown in the sketch found in the Details in the plans until successful completion of the pressure test and receipt of two safe water samples.

Contractor shall verify location and elevations of existing water main at all water main connections.

Once passing tests have been obtained, the contractor shall connect the new water main to the existing water main. This connection shall include, but not be limited to, locating, excavating, draining down, and cutting into the existing pipe. It shall also include the removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection.

The contractor shall ensure continuity of the PVC pipe tracer wire by a method acceptable to the engineer and shall be responsible to make all required repairs to the tracer wire to ensure continuity.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure 12-Inch Water Main Offset with 24-Inch Steel Casing by each unit, acceptably completed. The offset shall include all pipe, fittings, and steel casing.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.17	12-Inch Water Main Offset with 24-Inch Steel Casing	EACH

Payment is full compensation for furnishing labor, materials, excavation, necessary removals, pipe laying, steel casing installation, fittings, connections to existing water main, sheathing, shoring, backfill to the bottom of the box culvert for which the offset is required, backfill to the top of subgrade outside of the box culvert limits, testing, and incidentals necessary to complete work.

Insulation will be paid for separately.

57. Adjust Hydrant, Item SPV.0060.19.

A Description

This special provision describes adjusting, protecting, and maintaining accessibility for the duration of this project, to all hydrants specified on the plans for adjusting that are located within the project limits.

B Materials

Existing hydrants shall be adjusted at locations identified on the plans.

Hydrant Extensions shall be compatible with the manufacturer of each type of hydrant adjusted.

C Construction

Hydrants identified in the plans for adjustment within the project limits shall be adjusted to proposed elevations by the contractor using materials meeting city specifications.

Setting Hydrants: Locate as shown or as directed and in a manner to provide complete accessibility, also in such a manner that the possibility of damage from vehicles or injury to pedestrians will be minimized. Align the pumper nozzle per the owner's direction. Set to the established grade, with nozzles at least 18-24 inches above the proposed ground or as directed. The contractor shall verify the proposed grade elevations prior to adjusting the hydrant.

Throughout the duration of the project, the contractor must ensure that all at all times, all hydrants remain accessible for operation by city forces. Exercise caution working adjacent to hydrants to avoid damage and ensure accessibility.

Upon completion of the contract, the city will inspect all hydrants to ensure they are clean, properly aligned, set at the correct grades, and accessible. The contractor shall be responsible to make identified repairs and adjustments.

D Measurement

The department will measure Adjust Hydrant 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.0060.19	Adjust Hydrant	EACH

Payment is full compensation for all excavation, backfilling, disposal of surplus materials, and restoration of the work site.

58. Extend Hydrant, Item SPV.0060.20.

A Description

This special provision describes the removal of an existing hydrant and valve, connection to the existing hydrant tee, and the installation of a new hydrant and valve at a new location designated in the tabulation.

B Materials

Hydrants shall be Clow Medallion and/or Kennedy Guardian (with reservoir), or equal, red in color, AWWA C-502 breakaway type with two 2.5-inch outlets and one 4.5-inch outlet and wrapped with polyethylene, meeting requirements of section 8.26.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Valve shall be a 6-inch valve. Valve shall be smooth bore resilient seat gate valve and shall be Kennedy Ken-Seal, Clow F-6100, Mueller 2360-20, or equal. All valves shall have stainless nuts and bolts. Valves shall meet the requirements of section 8.27.1 of the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition. Valves shall open left.

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

Joints shall be push-on type rubber gaskets and conform to ASTM C1869.

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Mega lug retainer glands shall be installed at all fittings locations. The cost for fittings shall be incidental.

Valve boxes and lids shall be Tyler 6960, Star Pipe Products three piece cast iron valve box, or approved equal.

Valves shall be furnished with a valve adaptor with gasket as manufactured by Adaptor, Inc.

Tracer wire access boxes shall be manufactured by Valvco, Inc. or approved equal.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Use methods that conform with Section 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Valves, boxes, and valve adaptors shall be installed according to Section 4.8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Extend hydrant leads with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

Remove the existing hydrant and valve, connect to the existing hydrant tee, and install 6-inch hydrant lead, valve and hydrant as specified in the plans and tabulation. The hydrant and valve shall be returned to the City of Brookfield Water Utility unless otherwise directed by the engineer. Any water main appurtenances that the engineer determines is not worth salvaging shall become property of the contractor and shall be removed from the project.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The contractor shall connect the newly relocated hydrant and lead to the existing hydrant lead. This connection shall include but not be limited to, locating, excavating, draining down, and connecting to the existing hydrant tee. It shall also include removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection.

Construct hydrant and hydrant valve at locations shown in the tabulations, specified above, and as directed by the engineer per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and the City of Brookfield Standard Detail Plate No. 009 and/or No. 009A.

All water main piping shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be installed from the water main to a tracer wire access box located behind the hydrant as shown on the detail in the plans. Any necessary splices shall be made utilizing SnakeBite water proof Connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

Setting Hydrants: Locate as shown in the tabulations or as directed and in a manner to provide complete accessibility, also in such a manner that the possibility of damage from vehicles or injury to pedestrians will be minimized. Stand plumb and have the pumper nozzle aligned as per the owner's direction. Set to the established grade, with nozzles at least 18-24 inches above the proposed ground or as directed. Set the hydrant and 6-inch gate valve set on hardwood blocking as shown on City of Brookfield Standard Detail Plate No. 009. The contractor shall verify the proposed grade elevations prior to setting the hydrant.

Where a hydrant is set in soil that is pervious, provide drainage at the base of the hydrant by placing coarse gravel or crushed stone mixed with coarse sand, from the bottom of the trench to at least 6 inches above the waste opening in the hydrant and to a distance of 12 inches around the elbow.

Wherever a hydrant is set in clay or other impervious soil, excavate a drainage pit 2 feet in diameter and 3 feet deep below each hydrant and fill compactly with coarse gravel or crushed stone mixed with coarse sand, under and around the elbow of the hydrant to a level of 6 inches above the waste opening.

Brace well the bowl of each hydrant against unexcavated earth at the end of the trench with concrete backing. Block or approved mechanical joint lugged retainer glands may be used.

Set elevation of breakaway flange a minimum of 2-inches and a maximum of 4 inches above proposed grade.

Provide drain pocket at base of hydrant of 1.5 cubic yards of crushed stone or rock conforming to requirements of ASTM C33, Gradation Number 2.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Extend Hydrant by each individual unit, acceptably completed, regardless of hydrant setting identified in the City of Brookfield Standard Detail Plate No. 009 and Plate No. 009A.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.20	Extend Hydrant	EACH

Payment is full compensation for removing and replacing the hydrant in its new location as shown in the tabulations and directed by the engineer. This shall include removal of the existing hydrant, valve, piping, and fittings.

In addition, it shall include the connection to the existing hydrant tee, fittings, tracer wire, tracer wire access boxes, and adjustments necessary to install the new hydrant lead, the hydrant, and hydrant valve. This shall include but not be limited to testing and incidentals for pavement sawing, pavement removal, excavating, shoring, backfilling, and all other required materials and labor to complete this work in place.

All required 6-inch PVC lead piping will be paid for separately.

59. Relocate Hydrant, Item SPV.0060.21.

A Description

This special provision describes the removal of an existing hydrant and valve, capping and abandoning the existing hydrant tee, connecting to an existing water main with a new hydrant tee, and installation of a new hydrant and valve at a new location designated in the tabulation.

B Materials

Hydrants shall be Clow Medallion and/or Kennedy Guardian (with reservoir), or equal, red in color, AWWA C-502 breakaway type with two (2) 2.5-inch outlets and one (1) 4.5-inch outlet and wrapped with polyethylene, meeting requirements of section 8.26.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Valve shall be a 6-inch valve. Valve shall be smooth bore resilient seat gate valve and shall be Kennedy Ken-Seal, Clow F-6100, Mueller 2360-20, or equal. All valves shall have stainless nuts and bolts. Valves shall meet the requirements of section 8.27.1 of the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition. Valves shall open left.

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

Joints shall be push-on type rubber gaskets and conform to ASTM C1869.

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Mega lug retainer glands shall be installed at all fittings locations. The cost for fittings shall be incidental.

Valve boxes and lids shall be Tyler 6960, Star Pipe Products three piece cast iron valve box, or approved equal.

Valves shall be furnished with a valve adaptor with gasket as manufactured by Adaptor, Inc.

Tracer wire access boxes shall be manufactured by Valvco, Inc. or approved equal.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Use methods that conform with Section 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Valves, boxes, and valve adaptors shall be installed according to Section 4.8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Hydrants shall be relocated along the water main with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

Remove the existing hydrant and valve and install a new hydrant tee, 6-inch hydrant lead, valve and hydrant in a new location as specified in the plans and tabulation. The existing hydrant tee shall be capped and abandoned. The hydrant and valve shall be returned to the City of Brookfield Water Utility unless otherwise directed by the engineer. Any water main appurtenances that the engineer determines is not worth salvaging shall become property of the contractor and shall be removed from the project.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The contractor shall connect the newly relocated hydrant and lead to the existing water main. This connection shall include but not be limited to, locating, excavating, draining down, and cutting into the existing pipe. It shall also include removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection.

Construct hydrant and hydrant valve at locations shown in the tabulations, specified above, and as directed by the engineer per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and the City of Brookfield Standard Detail Plate No. 009 and/or No. 009A.

All water main shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be installed from the water main to a tracer wire access box located behind the hydrant as shown on the detail in the plans. Any necessary splices shall be made utilizing SnakeBite water proof Connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

Setting Hydrants: Locate as shown in the tabulations or as directed and in a manner to provide complete accessibility, also in such a manner that the possibility of damage from vehicles or injury to pedestrians will be minimized. Stand plumb and have the pumper nozzle aligned as per the owner's direction. Set to the established grade, with nozzles at least 18-24 inches above the proposed ground or as directed. Set the hydrant and 6-inch gate valve set on hardwood blocking as shown on City of Brookfield Standard Detail Plate No. 009. The contractor shall verify the proposed grade elevations prior to setting the hydrant.

Where a hydrant is set in soil that is pervious, provide drainage at the base of the hydrant by placing coarse gravel or crushed stone mixed with coarse sand, from the bottom of the trench to at least 6 inches above the waste opening in the hydrant and to a distance of 12 inches around the elbow.

Wherever a hydrant is set in clay or other impervious soil, excavate a drainage pit 2 feet in diameter and 3 feet deep below each hydrant and fill compactly with coarse gravel or crushed stone mixed with coarse sand, under and around the elbow of the hydrant to a level of 6 inches above the waste opening.

Brace well the bowl of each hydrant against unexcavated earth at the end of the trench with concrete backing. Block or approved mechanical joint lugged retainer glands may be used.

Set elevation of breakaway flange a minimum of 2-inches and a maximum of 4 inches above proposed grade.

Provide drain pocket at base of hydrant of 1.5 cubic yards of crushed stone or rock conforming to requirements of ASTM C33, Gradation Number 2.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three (3) days prior to work being performed.

D Measurement

The department will measure Relocate Hydrant by each individual unit, acceptably completed, regardless of hydrant setting identified in the City of Brookfield Standard Detail Plate No. 009 and Plate No. 009A.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Relocate Hydrant	EACH

Payment is full compensation for removing and replacing the hydrant in its new location as shown in the tabulations and directed by the engineer. This shall include removal of the existing hydrant, valve, piping, fittings, and capping and abandoning existing hydrant tee.

In addition, it shall include the connection, fittings, tracer wire, tracer wire access boxes, and adjustments necessary to install the new hydrant lead, the hydrant, and hydrant valve. This shall include but not be limited to testing and incidentals for pavement sawing, pavement removal, excavating, shoring, backfilling, and all other required materials and labor to complete this work in place.

All required 6-inch PVC lead piping will be paid for separately.

60. Hydrant Assembly, Item SPV.0060.22.

A Description

This special provision describes the installation of a new hydrant and valve on a new water main in the water main relay areas at locations designated in the plans.

B Materials

Hydrants shall be Clow Medallion and/or Kennedy Guardian (with reservoir), or equal, red in color, AWWA C-502 breakaway type with two 2.5-inch outlets and one 4.5-inch outlet and wrapped with polyethylene, meeting requirements of section 8.26.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Valve shall be a 6-inch valve. Valve shall be smooth bore resilient seat gate valve and shall be Kennedy Ken-Seal, Clow F-6100, Mueller 2360-20, or equal. All valves shall have stainless nuts and bolts. Valves shall meet the requirements of section 8.27.1 of the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition. Valves shall open left.

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

Joints shall be push-on type rubber gaskets and conform to ASTM C1869.

Fittings and bolts shall be per Section 8.22.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Mega lug retainer glands shall be installed at all fittings locations. The cost for fittings shall be incidental.

Valve boxes and lids shall be Tyler 6960, Star Pipe Products three piece cast iron valve box, or approved equal.

Valves shall be furnished with a valve adaptor with gasket as manufactured by Adaptor, Inc.

Tracer wire access boxes shall be manufactured by Valvco, Inc. or approved equal.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Use methods that conform with Section 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Valves, boxes, and valve adaptors shall be installed according to Section 4.8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Hydrants shall be installed with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

Install 6-inch hydrant lead, valve and hydrant as specified in the plan.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Construct hydrant and hydrant valve at locations shown in the tabulations, specified above, and as directed by the engineer per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and the City of Brookfield Standard Detail Plate No. 009 and/or No. 009A.

All water main shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be installed from the water main to a tracer wire access box located behind the hydrant as shown on the detail in the plans. Any necessary splices shall be made utilizing SnakeBite water proof Connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

Setting Hydrants: Locate as shown in the tabulations or as directed and in a manner to provide complete accessibility, also in such a manner that the possibility of damage from vehicles or injury to pedestrians will be minimized. Stand plumb and have the pumper nozzle aligned as per the owner's direction. Set to the established grade, with nozzles at least 18-24 inches above the proposed ground or as directed. Set the hydrant and 6-inch gate valve set on hardwood blocking as shown on City of Brookfield Standard Detail Plate No. 009. The contractor shall verify the proposed grade elevations prior to setting the hydrant.

Where a hydrant is set in soil that is pervious, provide drainage at the base of the hydrant by placing coarse gravel or crushed stone mixed with coarse sand, from the bottom of the trench to at least 6 inches above the waste opening in the hydrant and to a distance of 12 inches around the elbow.

Wherever a hydrant is set in clay or other impervious soil, excavate a drainage pit 2 feet in diameter and 3 feet deep below each hydrant and fill compactly with coarse gravel or crushed stone mixed with coarse sand, under and around the elbow of the hydrant to a level of 6 inches above the waste opening.

Brace well the bowl of each hydrant against unexcavated earth at the end of the trench with concrete backing. Block or approved mechanical joint lugged retainer glands may be used.

Set elevation of breakaway flange a minimum of 2-inches and a maximum of 4 inches above proposed grade.

Provide drain pocket at base of hydrant of 1.5 cubic yards of crushed stone or rock conforming to requirements of ASTM C33, Gradation Number 2.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Hydrant Assembly by each individual unit, acceptably completed, regardless of hydrant setting identified in the City of Brookfield Standard Detail Plate No. 009 and Plate No. 009A.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.22	Hydrant Assembly	EACH

Payment is full compensation for installing a new hydrant and valve on a new water main in a location as shown in the tabulations, plans, and as directed by the engineer.

All required 6-inch PVC lead piping will be paid for separately.

In addition, it shall include any necessary fittings, tracer wire, tracer wire access boxes, and adjustments necessary to install the new hydrant lead, the hydrant, and hydrant valve. This shall include but not be limited to testing and incidentals for pavement sawing, pavement removal, excavating, shoring, backfilling, and all other required materials and labor to complete this work in place.

61. Adjust Water Valve Box, Item SPV.0060.23.

A Description

This special provision describes adjusting, protecting, and maintaining accessibility for the duration of this project, to all water valve boxes located within the project limits.

B Materials

Existing water valve boxes.

Any new water valve boxes that are necessary shall follow the material requirements listed under the Valve Box Replacement section of these special provisions.

C Construction

All water valve boxes within the project limits shall be adjusted to proposed elevations by the contractor using materials meeting city specifications.

Throughout the duration of the project, the contractor must ensure that all water valve boxes are adequately located and identified by blue paint, and that at all times, all water appurtenances remain accessible for operation by city forces. Exercise caution working adjacent to water facilities to avoid damage and ensure accessibility.

The proposed curb line shall be verified for any water valve boxes located near the curb line. The curb and gutter shall be field adjusted as necessary to minimize any water valve box conflicts.

Upon completion of the contract, the city will inspect all water facilities to ensure the water valve boxes are clean, properly aligned, and accessible. The contractor shall be responsible to make identified repairs and adjustments.

D Measurement

The department will measure Adjust Water Valve Box as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.23	Adjust Water Valve Box	EACH

Payment is full compensation for all excavation, backfilling, disposal of surplus materials, and restoration of the work site.

This pay item is for the adjustment of existing valve boxes only.

Adjusting new valve boxes will be paid for under Replace Water Valve Box.

62. Adjust Curb Stop Box, Item SPV.0060.24.

A Description

This special provision describes adjusting, protecting, and maintaining accessibility for the duration of this project, to all curb stop boxes located within the project limits as identified on the plans and tabulations.

B Materials

Existing curb stop boxes.

1.25-inch curb box repair coupling (with male iron pipe threads)

1.25-inch cast iron steel pipe

Any new curb stop boxes that are necessary shall follow the material requirements listed under the Water Service Connection sections of these special provisions.

C Construction

All curb stop boxes within the project limits shall be adjusted to proposed elevations by the contractor using materials meeting city specifications. Any adjustments exceeding the standard top section adjustment must either be cut down to grade or raised to grade with cast iron steel pipe and curb box repair couplings.

Throughout the duration of the project, the contractor must ensure that all curb stop boxes are adequately located and identified by blue paint, and that at all times, all water appurtenances remain accessible for operation by city forces. Exercise caution working adjacent to water facilities to avoid damage and ensure accessibility.

A meter box cover shall be installed over the top of any curb stop box that falls within a pavement area. See the Meter Box special provision for more information.

Upon completion of the contract, the city will inspect all water facilities to ensure the curb stop boxes are clean, properly aligned, and accessible. The contractor shall be responsible to make identified repairs and adjustments.

D Measurement

The department will measure Adjust Curb Stop Box as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Adjust Curb Stop Box	EACH

Payment is full compensation for locating, identifying, and adjusting all curb stop boxes including, but not limited to excavation, backfilling, disposal of surplus materials, and restoration of the work site.

Meter box covers that are necessary shall be paid for separately under those bid items.

Multiple adjustments required to perform this work or additional adjustments as directed by the engineer shall be considered incidental.

This pay item is for the adjustment of existing curb stop boxes only. Payment for adjusting new curb stop boxes shall be included as part of the Water Service Connection bid items.

63. Meter Box Cover, Item SPV.0060.25.

A Description

This special provision describes the installation of a new meter box cover over the top of an existing curb stop box and/or sanitary sewer cleanout that falls within a proposed pavement area as directed by the engineer. Perform this work according to the pertinent provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, except as herein modified.

B Materials

Meter Box Cover shall be a Ford Type A1 or approved equal. The lid shall be marked "Water Meter" for curb stop boxes and "Sewer" for sanitary sewer cleanouts.

C Construction

Install the Meter Box Cover to match the surrounding pavement surface.

D Measurement

The department will measure Meter Cover Box as each unit 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.0060.25	Meter Cover Box	EACH

Payment is full compensation for to install the meter box cover over the top of each curb stop box and/or sanitary sewer cleanout that is installed in a pavement area or as directed by the engineer.

64. Adjust Sanitary Sewer Manhole, Item SPV.0060.26.

A Description

This special provision describes the adjustment of City of Brookfield sanitary sewer manholes from the top of cone to the top of manhole frame and cover. Perform this work according to the pertinent provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, except as herein modified.

B Materials

Make adjustments using concrete adjusting rings and mortar.

C Construction

Perform work according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Set manhole frames to finished grade. All work shall be per City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

The proposed curb line shall be verified for any castings located near the curb line. The contractor shall rotate the manhole cone or top section as necessary to avoid or minimize impact to the curb line.

A sanitary manhole seal shall be installed upon completion of the work performed.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Adjust Sanitary Sewer Manhole as each manhole location adjusted, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Adjust Sanitary Sewer Manhole	EACH

Payment is full compensation for adjusting existing manhole frame and casting to finish grade from the top of existing cone to the top of manhole frame and casting. This shall include but not be limited to construction, necessary removals, excavation, and backfilling.

Multiple adjustments required to perform this work or additional adjustments as directed by the engineer shall be considered incidental.

Sanitary manhole seals will be paid for separately. New sanitary manhole frames and castings will be paid for separately under other bid items.

65. Reconstruct Sanitary Sewer Manhole, Item SPV.0060.27.

A Description

This special provision describes the reconstruction of City of Brookfield sanitary sewer manholes identified from the bottom of the existing manhole cone section to the top of frame and casting. Perform this work according to the pertinent provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, except as herein modified.

B Materials

Reconstruct manhole using a precast cone section, additional precast barrel sections as necessary, and concrete adjusting rings and mortar per the City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

C Construction

Perform work according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Set manhole frames to finished grade. All work shall be per City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

The contractor shall remove the existing cone section or deck to the top of the barrel section, salvage the existing frame and casting, install new deck or cone section, construct the chimney section and reset the salvaged frame and casting to proposed grade.

The proposed curb line shall be verified for any castings located near the curb line. The contractor shall rotate the manhole cone or top section as necessary to avoid or minimize impact to the curb line.

A sanitary manhole seal shall be installed upon completion of the work performed.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department shall measure each Reconstruct Sanitary Sewer Manhole on a unit basis for each manhole reconstructed, as designated in the plans and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.27	Reconstruct Sanitary Sewer Manhole	EACH

Payment is full compensation for reconstruction of existing manholes from the bottom of the existing cone section to the top of the frame and casting. This shall include but not be limited to construction, necessary removals, excavation, and backfilling.

This shall also include adjusting the existing manhole frame and casting to finish grade. Any additional adjustments required to perform this work or additional adjustments as directed by the engineer shall be considered incidental.

Sanitary manhole seals will be paid separately under other bid items. Any new sanitary manhole frame and casting shall be paid for separately under other bid items.

66. Sanitary Sewer Manhole Frame and Casting, Item SPV.0060.28.

A Description

This special provision describes the installation of new sanitary manhole frame and castings as directed by the engineer. Perform this work according to the pertinent provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, except as herein modified.

B Materials

Sanitary manhole frame and castings shall be Neenah R-1661 or approved equal.

C Construction

Install a new Sanitary Manhole Frame and Casting as necessary and as directed by the engineer.

Perform work according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Set manhole frame and casting to finished grade. All work shall be per City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

D Measurement

The department will measure Sanitary Manhole Frame and Casting as each manhole location, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.28	Sanitary Manhole Frame and Casting	EACH

Payment is full compensation for furnishing and installation of a new sanitary manhole frame and casting and does not include any adjustments. This shall include but not be limited to construction, necessary removals, excavation, and backfilling.

Adjustments will be included as part of Adjust Sanitary Sewer Manhole, Reconstruct Sanitary Sewer Manhole, or Rebuild Sanitary Sewer Manhole. Sanitary manhole seals will be paid separately under other bid items.

67. Sanitary Sewer Manhole Seal, Item SPV.0060.29.

A Description

This special provision describes the installation of sanitary manhole seals.

B Materials

Sanitary manhole seals, shall meet the material requirements of section 8.42.3 and the performance requirement of section 8.42.4 of the Standard Specifications for Sewer and Water Construction, 6th Edition and all amendments, except as herein modified.

Sanitary Manhole Seals shall be Adaptor Internal/External seal ring or approved equal according to City of Brookfield Standard Detail Plate No. 011 and Plate No 011A.

C Construction

Use methods that conform with Section 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Install seals according to the manufacturer's recommended installation procedures and per the City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

Install all sanitary manhole seals after the manholes have been adjusted to proper grade, during placement of base aggregate dense, and prior to the completion of the pavement.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Sanitary Manhole Seal by each individual unit, acceptably completed. The City of Brookfield will provide acceptance prior to backfilling and payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.29	Sanitary Manhole Seal	EACH

Payment is full compensation for installing a manhole seal for a sanitary manhole.

68. Utility Line Opening, Item SPV.0060.30.

A Description

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

B (Vacant)

C Construction

When directed by the engineer, excavate the soil above a utility to determine the exact elevation of the facility prior to excavation work. 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 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 engineer at least 3 calendar days prior to performing a utility line opening so that a representative of the engineer can be present at the utility line opening.

D Measurement

The department will measure Utility Line Opening 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.0060.30	Utility Line Opening	EACH

Payment is full compensation for the excavation required to expose the utility line; for backfilling with trench excavation; for compacting the backfill; for removal of any waste material; and for any other incidentals necessary to complete the project.

Existing pavement, concrete curb and gutter, and sidewalk removals necessary to facilitate utility line openings shall not be considered part of or paid for under Utility Line Openings but shall be measured and paid for using other removal bid items. Replacement pavement, concrete curb and gutter, and sidewalk shall not be considered part of or paid for under Utility Line Opening but shall be measured and paid for under separate bid items.

69. Temporary Marking Railroad Crossing Removable Tape, Item SPV.0060.31.

A Description

This special provision describes providing temporary marking railroad crossing removable tape as shown on the plans.

B Materials

Furnish pavement marking materials conforming to standard spec 646.2.

C Construction

Construct temporary marking railroad crossing removable tape according to standard spec 646.3.3 and 649.3.

D Measurement

The department will measure temporary marking railroad crossing removable tape by each location according to standard spec 646.4, 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 Marking Railroad Crossing Removable Tape	EACH

Payment is full compensation for providing, installing, maintaining, and removing the marking as shown on the plans and as directed by the engineer.

70. Section Corner Monuments, Item SPV.0060.32.**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. Furnish 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 contractor will contact the engineer and 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: John Washburn
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
jwashburn@sewrpc.org

D Measurement

The department will measure Section Corner Monuments Special 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.0060.32	Section Corner Monuments	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, for all coordination with SEWRPC.

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71. Remove, Temporary Relocate, and Permanent Relocate Mailbox, Item SPV.0060.33.

A Description

This special provision describes removing, temporarily relocating, and permanently placing mailboxes for adjacent properties on the project as provided in this special provision.

B Materials

Re-use existing mailboxes and furnish 4" x 4" wood posts meeting the requirements of standard spec 634, and appurtenant hardware for mounting the mailboxes to the posts.

C Construction

Remove existing mailboxes from bases and relocate to new location as required by the U.S. Postal Service. Mount on new 4" x 4" wood posts using appropriate mounting hardware. Reinstall wood posts and mailboxes at the appropriate residences once construction reaches satisfactory completion as determined by the engineer, and as directed by the U.S. Postal Service. Dispose of old bases unless requested otherwise by the property owner.

D Measurement

The department will measure Remove, Temporary Relocate, and Permanent Relocate Mailbox as each individual post and mailbox 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.0060.33	Remove, Temporary Relocate, and Permanent Relocate Mailbox	EACH

Payment is full compensation for removing mailboxes, providing wood posts, hauling and placing the mailboxes in both temporary and permanent locations, for excavating and backfilling post holes, providing appropriate mounting hardware, and disposing of surplus materials.

72. 1.25-inch Water Service Connection, Item SPV.0060.34; 2-inch Water Service Connection, Item SPV.0060.35.

A Description

This special provision describes the connection of a new water service lateral to an existing water service lateral including the installation of saddles, corporation stops, curb stops, and curb boxes.

B Materials

Corporation stops shall be Mueller H-15008, McDonald 4701BQ, Ford F1000, or equal.

Curb stops shall be Mueller P15155, McDonald 6104Q, Ford B44-455M, or equal with Minneapolis thread.

Curb boxes shall be Mueller H-103000, McDonald 5614, or equal. Lids shall be McDonald with tracer wire screw, Ford meter Box Company PL-LID-TW Style, or equal.

Service saddles are required and shall be a stainless steel clamp with rubber gasket and integral service outlet manufactured by Cascade Waterworks (CSC2 for 4"-10", CS22 for 12" and 16"), Smith-Blair (372 for 4"-12"), Power Seal or equal.

C Construction

Connect to the existing water service after the necessary water testing has been completed and the new HDPE water service has been installed.

Any necessary adjustments for new curb stop boxes shall follow the requirements of the Adjust Curb Stop and Box section of these special provisions.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure (size) Water Service Connection by each water service connection, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.34	1.25-inch Water Service Connection	EACH
SPV.0060.35	2-inch Water Service Connection	EACH

Payment is full compensation to make the connection. The unit price shall include but not be limited to, locating, excavating, draining down, and cutting into the existing service. It shall also include all appurtenances required for the connection including, but not limited to, the corporation stop, curb stop, curb stop box, necessary curb stop box adjustments, saddle, and connection to the existing water service. It shall also include any necessary removals and abandonments of the existing service and associated appurtenances.

73. Water Curb Stop Box, Item SPV.0060.36.

A Description

This special provision describes the installation of a curb stop box and curb stop nut extension on the existing curb stop for the water service lateral to 2600 Calhoun Road.

B Materials

Curb boxes shall be Mueller H-103000, McDonald 5614, or equal. Lids shall be McDonald with tracer wire screw, Ford meter Box Company PL-LID-TW Style, or equal.

The Bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Install curb stop box and curb stop nut extension on the existing curb stop after the temporary diversion pipes have been removed as directed by the engineer. Contractor shall locate and verify curb stop location prior to water curb stop box installation.

Curb stop nut extension shall extend 5 feet from curb stop toward the surface.

10 gauge copper tracer wire shall be brought to surface and attached to the screw on the curb box cover. The wire shall be installed from the water main to the curb stop box. Any necessary splices shall be made utilizing SnakeBite water proof connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

Any necessary adjustments for new curb stop boxes shall follow the requirements of the Adjust Curb Stop and Box section of these special provisions.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe.

All trenches for the water service installation in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill.

All trenches for the water service installation within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Water Curb Stop Box by each box 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.0060.36	Water Curb Stop Box	EACH

Payment is full compensation for furnishing labor, materials, excavation, bedding, backfill, fittings, tracer wire, curb stop box, necessary curb stop box adjustments, sheathing, shoring, dewatering, and incidentals necessary to complete the work.

74. Sanitary Sewer Service Cleanout, Item SPV.0060.37.

A Description

This special provision describes the installation of a sanitary sewer service lateral cleanout on a new sanitary sewer service lateral installed within the project limits as identified on the plans and tabulations and as directed by the engineer.

B Materials

PVC SDR 35 pipe and PVC fittings meeting the requirements of ASTM D-3034 and Section 8.10.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Waterproof, solvent welded couplings

C Construction

All sanitary sewer lateral cleanouts within the project limits shall be adjusted to proposed elevations by the contractor using materials meeting city specifications as shown on the detail in the plans and as directed by the engineer.

Waterproof couplings and PVC pipe shall be used as necessary unless otherwise approved by the engineer.

Throughout the duration of the project, the contractor must ensure that sanitary sewer lateral cleanouts are adequately located and identified by green paint, and that at all times, all sanitary sewer appurtenances remain accessible for operation by city forces. Exercise caution working adjacent to sanitary sewer facilities to avoid damage and ensure accessibility.

A frost sleeve shall be installed over the top of all sanitary sewer service cleanouts. A meter box cover shall be installed over the top of any sanitary sewer cleanout frost sleeve that falls within a pavement area and a threaded PVC cap on any sanitary sewer cleanout frost sleeve that falls within a turf area. The top of all sanitary sewer cleanouts shall be left 6" under the top of the frost sleeves and shall have a PVC threaded cap. See the Meter Box special provision for more information.

Upon completion of the contract, the city will inspect all sanitary sewer cleanouts to ensure they are clean, properly aligned, and accessible. The contractor shall be responsible to make identified repairs and adjustments.

D Measurement

The department will measure Sanitary Sewer Service Cleanout 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.0060.37	Sanitary Sewer Service Cleanout	EACH

Payment is full compensation for installing each sanitary sewer cleanout according to the detail in the plans, including excavation, backfilling, disposal of surplus materials, and restoration of the work site.

PVC frost sleeves, threaded PVC caps, and any fittings necessary to properly adjust the existing sanitary sewer cleanout to the proper elevation are considered incidental to the sanitary sewer service cleanout. unit bid price. Multiple adjustments required to perform this work or additional adjustments as directed by the engineer shall be considered incidental.

Meter Box Covers that are necessary will be paid for separately.

75. Adjust Sanitary Sewer Service Cleanout, Item SPV.0060.38.

A Description

This special provision describes adjusting, protecting, and maintaining accessibility for the duration of this project, to all sanitary sewer cleanouts located within the project limits as identified on the plans and tabulations and as directed by the engineer.

B Materials

Existing sanitary sewer cleanouts

Waterproof, solvent welded couplings

PVC SDR 35, meeting the requirements of ASTM D-3034 and Section 8.10.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

All sanitary sewer cleanouts within the project limits shall be adjusted to proposed elevations by the contractor using materials meeting city specifications.

Waterproof couplings and PVC pipe shall be used as necessary unless otherwise approved by the engineer.

Throughout the duration of the project, the contractor must ensure that all sanitary sewer cleanouts are adequately located and identified by green paint, and that at all times, all sanitary sewer appurtenances remain accessible for operation by city forces. Exercise caution working adjacent to sanitary sewer facilities to avoid damage and ensure accessibility.

A frost sleeve shall be installed over the top of all sanitary sewer service cleanouts. A meter box cover shall be installed over the top of any sanitary sewer cleanout frost sleeve that falls within a pavement area and a threaded PVC cap on any sanitary sewer cleanout frost sleeve that falls within a turf area. The top of all sanitary sewer cleanouts shall be left 6" under the top of the frost sleeves and shall have a PVC threaded cap. See the Meter Box special provision for more information.

A meter box cover shall be installed over the top of any sanitary sewer cleanout that falls within a pavement area. See the Meter Box special provision for more information.

Upon completion of the contract, the city will inspect all sanitary sewer cleanouts to ensure they are clean, properly aligned, and accessible. The contractor shall be responsible to make identified repairs and adjustments.

D Measurement

The department will measure Adjust Sanitary Sewer Cleanout 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.0060.38	Adjust Sanitary Sewer Cleanout	EACH

Payment is full compensation for locating and identifying all sanitary sewer cleanouts, excavation, backfilling, disposal of surplus materials, and restoration of the work site..

PVC frost sleeves, threaded PVC caps, and any fittings necessary to properly adjust the existing sanitary sewer cleanout to the proper elevation are considered incidental to the sanitary sewer service cleanout. Multiple adjustments required to perform this work or additional adjustments as directed by the engineer shall be considered incidental.

Meter Box Covers that are necessary will be paid for separately.

76. Sanitary Force Main Service Offset, Item SPV.0060.39.

A Description

Furnish and install a sanitary force main service offset where required to provide proper clearance between the proposed ditch bottom located near Station 220+57 (Address: 2420 Calhoun Rd).

B Materials

Sanitary force main service offset shall be HDPE, ASTM F-714, SDR 11 meeting the requirements of Section 8.51 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Fittings for the connections to the existing sanitary force main service pipe shall conform to ASTM D-3261 and the requirements of Section 8.51 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

10 gauge copper tracer wire shall be installed on all sanitary force main piping. Splices shall be made utilizing SnakeBite water proof connectors manufactured by Copperhead Industries or approved equal.

The Bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Spoil backfill shall be according to Section 8.43.5 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

The sanitary force main service connections to the existing sanitary force main service shall be at both the east and west sides of the proposed ditch bottom as shown in the plans and as directed by the engineer.

The existing sanitary force main service is anticipated to be 1.5-inches in diameter. Contractor to locate and verify existing force main service and match "in kind" with the appropriate diameter pipe.

The contractor shall contact the property owner to coordinate any necessary service interruptions a minimum of 24 hours prior to starting the work unless otherwise directed by the engineer. Install sanitary force main service offsets with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

Sanitary force main service offset shall be installed with at least 6-feet in vertical clearance between the top of the sanitary force main service pipe and the bottom of the proposed ditch shown in the plans.

Sanitary force main service offset shall be installed with 10 gauge copper tracer wire. The wire shall be connected to the existing tracer wire installed with the in-place sanitary force main service on either side. This splice shall be made utilizing SnakeBite water proof connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material for the sanitary force main service installation shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe.

The trench for the sanitary force main service installation within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Sanitary Force Main Offset by each unit, acceptably completed. The offset shall include all pipe, fittings, and connections.

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	Sanitary Force Main Service Offset	EACH

Payment is full compensation for offsetting the sanitary force main service. This shall include, but not be limited to locating and identifying the existing sanitary force main service, for furnishing labor, materials, excavation, bedding, backfill, piping, fittings, draining down, cutting and connections to the existing service, sheathing, shoring, dewatering, backfilling, testing, and incidentals necessary to complete work, includes any necessary removals and/or abandonments of the existing service piping and associated appurtenances.

77. 6-inch Sanitary Service Connection, Item SPV.0060.40.

A Description

This special provision describes the connection of new sanitary sewer service lateral piping to an existing sanitary sewer service lateral including the installation of sleeves, fittings, and pipe required to make the connection.

B Materials

Fittings for sewer service laterals shall be PVC, ASTM D-3034, SDR 35 and meet the requirements of Section 8.10.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Couplings for connecting dissimilar pipe materials shall be a Max Adaptor coupling with gasket as manufactured by Gripper Gasket, LLC or approved equal conforming to the requirements of ASTM C 1173.

C Construction

Leak testing of the new sanitary sewer service lateral is required prior to making connections to an existing sanitary sewer main and/or service lateral. The testing shall be according to Section 3.7.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The sanitary sewer lateral connections for each service shall be at the existing sanitary service lateral wye located at the sanitary sewer main and at the cut-in of the existing sanitary sewer service lateral piping as shown in the plans and directed by the engineer.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three (3) days prior to work being performed.

D Measurement

The department will measure 6-inch Sanitary Service Connection by each sanitary service lateral connection 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.0060.40	6-inch Sanitary Service Connection	EACH

Payment is full compensation to make the connection; locating, excavating, and cutting into the existing service; all appurtenances required for the connection including, but not limited to, the necessary fittings, couplings, and connections to the existing sanitary sewer service latera; and any necessary removals and abandonments of the existing service and associated appurtenances.

78. Fence Split Rail Three Rail, Item SPV.0090.01.

A Description

Furnish and install at 42-inch tall cedar wood split rail fencing, with three rails, at locations shown on the plans or as designated by the engineer.

B Materials

All fencing shall be constructed of cedar posts and cedar split rails. The fencing materials shall be as commonly obtained from most landscape contractors.

C Construction

The height of the top rail shall be at least 42" above the finished ground. All posts shall be spaced at 10-foot intervals and set in and backfilled with earth and be a set minimum of 30 inches below finished grade. Spacing between rails and between the ground and lowest rail shall be 12 inches.

D Measurement

The department will measure Fence Split Rail Three-Rail by the linear foot in place, acceptably completed, measured center to center of end posts, along the fence line at the ground line, with deductions for openings.

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	Fence Split Rail Three Rail	LF

Payment is full compensation for furnishing all materials; for erecting fence including all hauling, excavation, placing of posts, and backfilling; and for removal of excavated materials.

79. Silt Fence Heavy Duty, Item SPV.0090.02.

A Description

This special provision describes furnishing, installing, and removing heavy duty silt fence as shown on the plans or as directed by the engineer before construction activities begin.

B Materials

Furnish heavy duty silt fence consisting of a composite woven wire fabric, posts, geotextile fabric, and fasteners to be assembled by the contractor. Woven wire fabric shall be a standard field fence type, a minimum of 3 feet high with a maximum mesh spacing of 6-inches and minimum 14½-gage wire. Provide metal posts with a minimum length of 6-feet, 3-inches. Posts shall be "studded tee" or "U" type with a minimum weight of 1.3 lb/ft. Provide geotextile fabric, non-woven with properties as specified in standard spec 628.2.6.1.

C Construction

Install heavy duty silt fence as shown on the plans. Space ties and anchors adequately to resist current flow. Remove silt fence only after construction activities have been completed. Remove trapped silt prior to removing the fence as directed by the engineer. Use heavy duty silt fence in wetland areas up to 6-inches of standing water.

D Measurement

The department will measure Heavy Duty Silt 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	Silt Fence Heavy Duty	LF

Payment is full compensation for furnishing, installing, maintaining, and removing the heavy duty silt fence.

80. Pipe Arch Corrugated Steel 95x67-Inch, Item SPV.0090.03.

A Description

This special provision describes providing large diameter corrugated steel pipe arches.

B Materials

Furnish corrugated steel culvert pipe arches meeting standard spec 521.2.

Minimum pipe thickness shall be 0.109 inches.

Provide pipe with nominal 3 inch X 1 inch (pitch X depth) annular corrugations.

C Construction

Construct as specified for pipe culverts in standard spec 520.3.

Repair any damaged coatings as described in standard spec 521.3.2.

D Measurement

The department will measure Pipe Arch Corrugated Steel 95x67-Inch, acceptably completed, as specified for pipe culverts in standard spec 520.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Pipe Arch Corrugated Steel 95x67-Inch	LF

Payment is full compensation for providing, hauling, and placing the pipe, including bands; for excavating, constructing the foundation, and backfilling; and for associated dewatering and maintaining drainage.

If material from the typical roadway section is not suitable for trench backfill, the department will pay separately for trench backfill under other contract bid items.

The department will pay separately for excavating unsuitable material and backfilling as specified in standard spec 520.3.2.1(10) as extra work.

81. 1.25-Inch HDPE Water Service, Item SPV.0090.04; 2-Inch HDPE Water Service, Item SPV.0090.05.

A Description

Furnish and install 1.25-inch and 2-inch HDPE Water Service for replacing water service laterals at locations identified on the plans.

B Materials

Water service lateral piping shall be 1.25-inch and 2-inch CTS AWWA C-901 SDR-9 HDPE Water Tube meeting requirements of Section 8.24.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Solid stainless steel insert sleeves should be included with the curb stop and corporation stop. Joints shall be with pack joint compression fittings as manufactured by Mueller, McDonald, Ford or equal.

All water service laterals shall be installed with 10 gauge copper tracer wire with the color of blue for water main.

The Bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Install water service laterals with minimum amount of service interruption. The water service lateral shall be buried at least 6 feet deep measured from the top of the water service lateral pipe to the proposed finish grade. Water service laterals crossing proposed storm sewers shall have a minimum of 18-inches of separation and be insulated according to the Standard Specifications for Sewer and Water Construction, 6th Edition and all amendments, File No. 48.

All water service lateral piping shall be installed with 10 gauge copper tracer wire. The wire shall be installed from the water main to the curb stop box. Any necessary splices shall be made utilizing SnakeBite water proof connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material for the water service lateral installation shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe.

All trenches for the water service lateral installation in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill to the top of subgrade.

All trenches for the water service lateral installation within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure (size) HDPE Water Service by the linear foot of pipe placed, 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.0090.04	1.25-Inch HDPE Water Service	LF
SPV.0090.05	2-Inch HDPE Water Service	LF

Payment is full compensation for furnishing labor, materials, necessary removals and/or abandonments, excavation, bedding, backfill, pipe laying, fittings, tracer wire, sheathing, shoring, dewatering, testing, and incidentals necessary to complete work.

Insulation and connection to the existing water service lateral and associated appurtenances will be paid for separately.

82. 6-Inch PVC Water Main, Item SPV.0090.06.

A Description

Furnish and install 6-inch PVC Water Main (Crushed Stone Backfill) for hydrant leads at locations identified on the plans.

B Materials

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Water main shall be installed at the grades indicated on the plans with a 6' minimum depth of cover over the water main. Polystyrene insulation shall be installed over the water main where indicated on the plans, or at storm sewer crossings as directed by the engineer as required by the Standard Specifications. Insulation shall be according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

All water main shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be connected to the existing tracer wire installed with the in-place water main. This splice shall be made utilizing SnakeBite water proof Connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three (3) days prior to work being performed.

D Measurement

The department will measure 6-inch PVC Water Main by the linear foot of hydrant lead furnished, 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.0090.06	6-Inch PVC Water Main	LF

Payment is full compensation for furnishing and installing all materials; necessary removals and/or abandonments of existing water main, hydrants, and valves, excavating, backfilling to the top of the subgrade, and compacting. Insulation will be paid for separately at its respective unit bid price.

This item only applies to Hydrant Leads. Any water main piping used for water main offsets will be paid for as part of each respective water main offset item.

83. 16-Inch PVC Water Main, Item SPV.0090.07.

A Description

Furnish and install 16-inch PVC Water Main (Crushed Stone Backfill) for replacing water mains at locations identified on the plans.

The water main replacement from Burleigh Road Station 51+75 (Water Main Plan and Profile Station 19+32) to Calhoun Road Station 267+50 (Water Main Plan and Profile Station 22+26) shall only be completed as necessary and as directed by the engineer based on the actual marsh excavation limits and field conditions.

B Materials

Water main shall be PVC pipe, conforming to AWWA C900, Class 235 (DR18).

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

Water main shall be installed at the grades indicated on the plans with a 6' minimum depth of cover over the water main. Polystyrene insulation shall be installed over the water main where indicated on the plans, or at storm sewer crossings as directed by the engineer as required by the Standard Specifications. Insulation shall be according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

The contractor shall contact effected businesses and residents to coordinate any necessary water main shutdowns a minimum of 24 hours prior to starting the work. Install water main with minimum amount of service interruption. After hours or weekend work shall be required as necessary.

All pipe and fittings shall be disinfected prior to installation per the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

All water main shall be installed with 10 gauge copper tracer wire with the color of blue for water main. The wire shall be connected to the existing tracer wire installed with the in-place water main. If no tracer wire exists, then it shall be brought to the surface at the connections as directed by the engineer. This splice shall be made utilizing SnakeBite water proof Connectors manufactured by Copperhead Industries or approved equal. Soldering wires together is not allowed.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Disinfect all newly installed water mains, appurtenances, and services according to AWWA C651. Flush system within 24 hours after disinfection is completed. The stem of all low end hydrants shall be removed during flushing operations as directed by the engineer. After final flushing obtain 2 sets of samples taken a minimum of 24 hours apart. Each sample set shall include one sample for every 1200 feet of main and one sample of each dead-end. Ensure that 1 sample is obtained from each branch of the main. Rechlorinate if any sample tests positive for coliform.

Water Main pressure testing shall not be performed until 7 days have passed since the last buttress was poured. If earlier testing is desired, the contractor may, at his option and cost substitute Class "A" Concrete or high early strength concrete for the Class "F" concrete specified for buttresses. Should either option be selected, the testing may be performed no sooner than 48 hours after the last buttress was poured. Concrete tickets showing the mix design and any additives shall be submitted to the engineer.

The new water main shall be physically isolated from the existing water system as shown in the sketch found in the Details in the plans until successful completion of the pressure test and receipt of two safe water samples.

Contractor shall verify location and elevations of existing water main at all water main connections.

Once passing tests have been obtained, the contractor shall connect the new 16-inch water main to the existing water main. This connection shall include, but not be limited to, locating, excavating, draining down and cutting into the existing pipe. It shall also include the removal of any existing pipe, gate valves, and fittings along with the installation of any sleeves, fittings, and pipe required to make the connection.

The contractor shall ensure continuity of the PVC pipe tracer wire by a method acceptable to the engineer and shall be responsible to make all required repairs to the tracer wire to ensure continuity.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure 16-inch PVC Water Main by the linear foot of water main furnished, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.07	16-Inch PVC Water Main	LF

Payment is full compensation for furnishing and installing all materials; necessary removals and/or abandonments of the existing water main, hydrants, and valves, excavating, backfilling to the top of subgrade, and compacting. It shall also include removal and/or abandonment of the existing water main, fittings, and water main connections to the existing water main and any fittings.

Insulation and any water main piping used for water main offsets will be paid for separately.

84. Excavate and Install Polystyrene Insulation, Item SPV.0090.08.

A Description

This special provision describes furnishing and placing polystyrene insulation board as shown on the plans in areas where there is less than the minimum cover depth over the top of the existing water main pipe.

B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230, except as hereinafter revised. Delete flammability requirement.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

All trenches for the excavation and installation of polystyrene insulation shall be backfilled according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

Backfill identified in File No. 48 that is in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

Polystyrene insulation shall be installed at locations shown on the plans and as directed by the engineer according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48 with the following exception. The insulation shall be 4 feet width and is not required to extend down both sides of the pipe flowline.

Insulation shall be installed in two layers for a total of 4-inches thickness. Joints between such layers shall be staggered.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

The department will measure Excavate and Install Polystyrene Insulation by the linear foot (8-foot width centered along the water main pipe installed in two layers for a total of 4-inches thick) of insulation installed, acceptably completed, measured along the centerline of the pipe being insulated.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.08	Excavate and Install Polystyrene Insulation	LF

Payment is full compensation for all excavation and backfill to the top of subgrade; furnishing and placing the insulation board.

85. 6-Inch PVC SDR 35, Item SPV.0090.09.

A Description

Furnish and install 6-inch PVC SDR 35 for sanitary service laterals.

B Materials

Sanitary service laterals shall be PVC pipe, conforming to ASTM D-3034, SDR 35 meeting the requirements of Section 8.10.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The bedding and cover material shall be in conformance with Section 8.43.2 Table 32 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments and shall consist of 3/8 inch crushed limestone.

Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in Section 8.43.7 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Spoil backfill shall be according to Section 8.43.5 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

C Construction

The contractor shall perform leak testing of the new sanitary sewer service lateral piping prior to making connections to an existing sanitary sewer main and/or service lateral. The testing shall be according to Section 3.7.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

The bedding and cover material shall have a minimum of 4" bedding to a cover of 12" above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

All trenches in the surfaced section of existing streets, driveways, parking areas, sidewalks, street shoulders or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. All other areas within the terrace area shall be backfilled with native material.

All backfill material shall be mechanically compacted per Section 2.6.14 (b) of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments.

Density tests on backfill materials will be as specified or as directed by the engineer. The contractor will provide for all compaction testing. The contractor shall re-compact all areas represented by failed density tests. The contractor shall be responsible for the costs associated with any subsequent testing. The contractor shall correct settlement resulting from the consolidation of backfill.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three (3) days prior to work being performed.

D Measurement

The department will measure 6-inch PVC SDR 35 water main by the linear foot of lateral, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.09	6-Inch PVC SDR 35	LF

Payment is full compensation for furnishing and installing all materials including pipe and fittings; necessary removals and/or abandonments of existing sanitary service lateral, excavating, backfilling, and compacting.

Risers and associated fittings for sanitary sewer service laterals shall be paid as 6-inch PVC SDR 35.

Sanitary sewer cleanouts and sanitary service lateral connections to the existing sanitary sewer services will be paid for separately.

86. Wood Railing, Item SPV.0090.10.

A Description

This special provision describes providing and installing wood rail fence as shown on the plans and as hereinafter provided.

B Materials

Furnish lumber pressure treated with ACQ (Advanced Copper and Quat) preservative that is arsenic and chromium free, according to the American Wood Preservers Association and the ACQ Preserve Quality Control Standard for products treated with ACQ. All lumber shall have 0.60 LB/CF retention, minimum.

All lumber shall be southern pine (SYP) graded under the Southern Pine Inspection Bureau (S.P.I.B.) Rules. All lumber shall be S4S (surfaced 4 sides).

All lumber shall be southern pine, no. 1 grade minimum.

Cuts and borings to structural components shall be treated with one surface application of approved preservative as shown in standard spec 507.2.3, before assembly.

Base aggregate shall meet the requirements of standard spec 305.

Brackets to connect posts to B-67-380 shall meet the requirements of standard spec 506.2.

Hardware shall meet the requirements of standard spec 507.2.6.

C Construction

Erect the Wood Railing per the construction detail at the locations shown in the plans. Connect posts over B-67-380 to the structure as detailed in the plans.

D Measurement

The department will measure Wood Railing by the linear foot, acceptably completed, measured center to center of end posts along the fence line at the ground line.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.10	Wood Railing	LF

Payment is full compensation for furnishing all materials; for erecting fence including all hauling, excavation, pacing of posts, and backfilling; for connecting posts to B-67-380; and for removal of excavated materials.

87. Temporary Water Diversion B-67-380, Item SPV.0105.01.

A Description

This special provision describes providing for and removing the temporary water diversion method and developing an approved plan for the flow of the Unnamed Tributary to the Fox River during the installation of Structure B-67-380 as hereinafter described.

B Materials

Follow the applicable sections of the WisDOT Standard Specifications for all materials utilized under this item, as directed by the engineer. Provide evidence that items meet specifications and/or certifications prior to use of such items if requested by the engineer.

C Construction

Provide the engineer with a staged plan indicating acceptable methods to handle water during construction in and next to the Unnamed Tributary to the Fox River. Submit this plan as part of the ECIP and meet the requirements of standard spec 107.20.

Alterations to the suggested methodologies of water diversion as noted below may be acceptable. Such alterations should be clearly spelled out in the ECIP for approval by WisDOT and the Wisconsin Department of Natural Resources prior to construction.

Divert the existing flow through twin 48-inch temporary culvert pipes utilizing barriers made of non-erodible materials, such as rock bags and polyethylene sheets, and a temporary open channel lined with reinforced polyethylene sheeting or other approved plastic. The bottom of the channel shall have a 6-inch depth of breaker run stone. Details of the temporary culvert pipe, the temporary channel, and the non-erodible barrier system shall be detailed in the contractor's ECIP, for approval by the engineer. Construct the temporary channel to prevent the 2-year storm interval from flowing into the new work area. The 2-year recurrence interval stream discharge is as follows:

Unnamed Tributary to the Fox River: 175 cubic feet per second

Remove the temporary open channel, temporary culvert pipe, or temporary barriers after flow through the new box culvert structure is established. Restore the area outside of the proposed roadbed and slopes to natural surrounding conditions and elevations.

D Measurement

The department will measure Temporary Water Diversion B-67-380 as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Temporary Water Diversion B-67-380	LS

Payment is full compensation for diversion plan; providing, installing, removing, and disposing of all materials used to divert flow; maintaining such materials during use; all excavation and backfill required; pumping activities; treatment of water; and for restoration of the area to original conditions, unless shown otherwise in the project plans.

88. Emergency Vehicle Preemption System Calhoun Rd & Burleigh Pl, Item SPV.0105.02.

A Description

This work shall consist of furnished and installing an Emergency Vehicle Preemption (EVP) System at a single intersection, as shown on the plans and as hereinafter provided.

B Materials and Construction

The Emergency Vehicle Preemption System shall include Opticom discriminator Model 454, Model 711 detectors, and Model 138 detector cable. This equipment shall be furnished and installed by the contractor.

Detectors shall be mounted on the mast arms and signal poles 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 city traffic engineer.

In the event, at installation, a noticeable obstruction is present in line with the detector, the contractor shall be obligated to advise the engineer before installation.

Unless otherwise directed by the city, the detector shield tube shall be installed with the drain hole at the bottom.

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.

C Measurement

The department will measure Emergency Vehicle Preemption System as a lump sum, acceptably completed.

D Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.02	Emergency Vehicle Preemption System Calhoun Rd & Burleigh Pl	LS

Payment is full compensation for furnishing and installing all equipment, cabling, necessary additional items, testing and setting up the system.

89. Video Vehicle Detection System Calhoun Rd & Burleigh Pl, Item SPV.0105.03.

A Description

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway using only video image of vehicle, bicycle, and pedestrian traffic.

B Materials

B.1 System Hardware

The video detection system (VDS) shall consist of up to four video cameras, up to two video detection processors (VDP) capable of processing up to two video sources each, one Central Control Unit (CCU), (either a 19" rack of shelf-mount form factor), 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 System Manufacturing

The VD shall be made in the U.S.A. in compliance with FTA "Buy America" regulations.

B.4 VDS Hardware

B.4.1 Video Detection Processor (VDP) System Interfaces

The VDP shall be a single-rack detector card width and provide provision for up to two sensors per VDP. It may be possible for the VDPs to be embedded in the shelf-mount CCU to provide a single cabinet interface. The following interfaces shall be provided on each video detection processor:

Video Input: Each VDP will be supplied with video from the VDS Camera Sensor via Ethernet cables plugged into the front of the Central Control Unit. The interface connectors shall be RJ-45 type.

Video Lock LED: A LED indicator shall be provided to indicate the presence of the video signal. The LED shall illuminate upon valid video synchronization and turn off when the presence of a valid video signal is removed.

Contact Closure Output: Open collector (contact closure) outputs shall be provided. Four (4) open collector outputs shall be provided for the Video Detection Processor rack-mount configuration. Additionally, the VDPs shall allow the use of extension modules to provide up to 32 open collector contact closures per camera input. Each open collector output shall be capable of sinking 30 mA at 24 VDC. Open collector outputs will be used for vehicle detection indicators as well as discrete outputs for alarm conditions. The VDP outputs shall be compatible with industry standard detector racks assignments.

Logic Inputs: Logic inputs such as delay/extend or delay inhibit shall be supported through the appropriate detector rack connector pin or front panel connector in the case of the I/O module. For VDPs and extension modules, 4 inputs shall be supported via detector rack interface. The I/O module shall accommodate eight (8) inputs through a 15-pin "D" connector.

Detection LEDs: Detection status LEDs shall be provided on the front panel. The LEDs shall illuminate when a contact closure output occurs. Rack-mounted video processors shall have a minimum of four LEDs. Rack-mounted extension modules shall have two, four or eight LEDs (depending upon extension module type) to indicate detection.

Test Switches: The front panel of the VDP shall have detector test switches to allow the user to manually place vehicle and bicycle calls on each VDP output channel. The test switch shall be able to place a momentary call.

B.4.2 Mounting

Both the VDP and EM shall be specifically designed to mount in a standard detector rack, using the edge connector to obtain power, provide contact closure outputs and accept logic inputs (e.g. delay/extend). No adapters shall be required to mount the VDP or EM in a standard detector rack and no rack rewiring shall not be required.

B.4.3 Circuit Boards

VDP printed circuit boards (PCBs) shall be conformally coated according to Caltrans and NEMA specifications.

B.4.4 On-board Memory

The VDP shall utilize non-volatile memory technology to store on-board firmware and operational data.

B.4.5 Firmware Upgrade

The CCU shall enable the loading of modified or enhanced software through either the Ethernet or front-panel USB port (using a USB thumb drive) and without removing or modifying the CCU hardware. The upgrade will affect both the CCU and VDP hardware when connected into a single system.

B.4.6 VDP and EM Power

The VDP and EM shall be powered by 12 or 24 volts DC. VDP and EM modules shall automatically compensate for either 12 or 24 VDC operation. VDP power consumption shall not exceed 7.5 watts. The EM power consumption shall not exceed 3 watts.

B.4.7 Operating Temperature

The VDS shall operate satisfactorily in a temperature range from -30° F to +165° F (-34° C to +74° C) and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications.

B.4.8 VDS CCU

The VDS Central Control Unit (CCU) shall be supplied by the VDS manufacturer.

B.4.8.1 Hardware

The CCU shall be supplied in three separate form factors. Users may choose one form factor for use within their controller cabinet system:

Standard One Rack Unit (1U) 19" rack format. There shall be brackets to allow the CCU to be mounted under shelves where a 19" frame is not available.

Shelf-Mount format; TS1 version. The CCU shall be able to stand up on available shelf-space within the cabinet. All connections shall be made from the front of the CCU, including connections to separate DPs located within the cabinet.

Shelf-Mount format; TS2 version. The CCU shall be able to stand up on available shelf-space within the cabinet. All connections shall be made from the front of the CCU, and no external DPs will be required.

B.4.8.2 CCU Power

The 19" Rack-mount CCU shall be powered from an 110V or 230V, 50Hz or 60Hz supply. CCU power consumption shall not exceed 20 Watts.

The shelf-mount format CCU shall be powered from a 48V DC power supply. CCU power consumption shall not exceed 150 Watts.

B.4.8.3 Operating Temperature

The VDS shall operate satisfactorily in a temperature range from -30° F to +165° F (-34° C to +74° C) and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications.

B.4.8.4 On-board Memory

The CCU shall utilize non-volatile memory technology to store on-board firmware and operational data.

B.4.8.5 Video Surge Suppression

The CCU shall incorporate video surge suppression for each video input. The CCU shall be appropriately grounded to the cabinet ground rod using 14 AWG (2.5mm²) minimum.

B.4.8.6 Power Surge Suppression

The CCU shall incorporate power surge suppression both on the input power and on the power supplied to the cameras. The CCU shall be appropriately grounded to the cabinet ground rod using 14 AWG (2.5mm²) minimum.

B.4.8.7 Power Management

The CCU shall incorporate power management for the various parts of the VDS such that if fault conditions are detected the power supply will safely shut down the power to that peripheral.

B.4.8.8 Interfaces

Extension modules (EM) shall be available to eliminate the need of rewiring the detector rack, by enabling the user to plug an extension module into the appropriate slot in the detector rack to provide additional open collector outputs. The EM shall be available in both 2- and 4-channel configurations. EM configurations shall be programmable from the CCU. A separate I/O module shall also be available having 32 outputs through a 37-pin "D" connector on the front panel and 8 inputs through a 15-pin "D" connector using an external wire harness for expanded flexibility.

The CCU shall provide four ports for connection to VDS camera sensors. The connector shall be an RJ-45 type.

The CCU shall provide four ports for connection to VDPs. The connector shall be an RJ-45 type. These connectors will not be required for the Shelf-Mount TS2 version CCU.

The CCU shall provide 2 USB 'A' ports on the front panel of the rack mount CCU unit. These ports can be utilized for various functions. For example, keyboard and mouse functions during system configuration, USB storage devices can be utilized for bin data and video collection. The USB ports shall not require special mouse software drivers. The USB ports shall be used as part of system setup and configuration.

The CCU shall provide an output to a monitor. The port shall be HDMI. The native resolution of the monitor port shall be 1024 x 768.

An Ethernet communications port shall be provided on the front panel. The Ethernet port shall be compliant with IEEE 802.3 and shall use a RJ-45 type connector mounted on the front panel of the CCU. The Ethernet communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information. The interface protocol shall be documented or interface software shall be provided. Each VDS shall have the capability to be IP addressable. The VDP shall support data rates of up to 100Mbps.

The CCU shall provide an SDLC connection to the Traffic Controller. The connector shall be a 'D-15' type, in compliance with NEMA TS-2 specifications.

The CCU shall provide an indicator when the SDLC port is active.

The CCU shall provide an indicator when the unit has power.

The CCU shall provide an indicator when the unit is on line.

The CCU shall provide a Wi-Fi connection. The connection shall be over a standard 2.4GHz connection. The Wi-Fi connection shall be enabled and disabled by a switch on the CCU. The CCU shall provide an indicator when the Wi-Fi connection is active.

The CCU shall provide a connection for a removable antenna. The antenna connection shall be a SMA Male type.

The CCU shall provide system status via an on-board Organic Light Emitting Diode display. The display shall indicate various system parameters, such as camera health and VDP health, firmware version and camera air temperature. The display will be enabled with a switch on the CCU. The display will automatically disable 15 minutes after the button is pressed.

B.5 VDS Camera Sensor

The VDS camera sensor shall be supplied by the VDS manufacturer.

The VDS camera sensor shall utilize a single shielded CAT5E or CAT6 cable for power and video. Cable termination at the camera shall not require crimping or special tools. The cable termination shall only require a standard wire stripper and a screw driver. No connectors (e.g. BNC) shall be allowed.

An optional RJ45 direct connector shall be made available if a user chooses to connect the sensor cable with RJ45 connections at the sensor.

The camera sensor shall allow the user to set the focus and field of view via the VDS software. Camera sensor control from the controller cabinet shall communicate over a single Cat5e or CAT6 cable. No additional wires shall be required.

The camera shall produce a useable video image of the features of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.003 lux to 10,000 lux.

The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night for the VDS algorithms.

The imager luminance signal to noise ratio (S/N) shall be more than 50 dB with the automatic gain control (AGC) disabled.

The imager shall employ three dimensional dynamic noise reduction (3D-DNR) to remove unwanted image noise.

The camera imager shall employ wide dynamic range (WDR) technology to compensate for wide dynamic outdoor lighting conditions. The dynamic range shall be greater than 100 dB.

The camera shall be digital signal processor (DSP) based and shall use a CCD sensing element and shall output color video with resolution of not less than 540 TV lines. The color CCD imager shall have a minimum effective area of 811(h) x 508(v) pixels.

The camera shall include an electronic shutter control based upon average scene luminance and shall be equipped with an auto-iris lens that operates in tandem with the electronic shutter. The electronic shutter shall operate between the range of 1/60th to 1/90,000th second.

The camera shall utilize automatic white balance.

The camera shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier.

The horizontal field of view shall be adjustable from 4.5 to 48 degrees. This camera configuration may be used for the majority of detection approaches in order to minimize the setup time and spares required by the user. The lens shall be a 12x zoom lens with a focal length of 3.5mm to 35mm.

The lens shall also have an auto-focus feature with a manual override to facilitate ease of setup.

The camera shall incorporate the use of preset positioning that store zoom and focus positioning information. The camera shall have the capability to recall the previously stored preset upon application of power.

The camera shall be housed in a weather-tight sealed enclosure. The housing shall allow the camera to be rotated to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view. The camera enclosure with sunshield shall be less than 3.5" (89mm) diameter, less than 5.25" (133mm) long, and shall weigh less than 2.5 pounds (1.14kg) when the camera and lens are mounted inside the enclosure.

The enclosure shall be designed so that the pan, tilt and rotation of the camera assembly can be accomplished independently without affecting the other settings.

The camera enclosure shall include a proportionally controlled Indium Tin Oxide (ITO) lens coating for the heating element of the front glass that maximizes heat transfer to the lens. The output power of the heater shall vary with temperature, to assure proper operation of the lens functions at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The transparent coating shall not impact the visual acuity and shall be optically clear.

The glass face on the front of the enclosure shall have an anti-reflective coating to minimize light and image reflections.

The glass face on the front of the enclosure shall include a Titanium Dioxide self cleaning coating.

When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from -30° F to +140° F (-34 °C to +60 °C) and a humidity range from 0% RH to 100% RH. Measurement of satisfactory video shall be based upon VDP system operation.

The camera shall be powered by 48VDC. Power consumption shall be 5 watts typical and 16 watts or less under worst conditions.

Recommended camera placement height shall be 33 feet (or 10 meters) above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet (107 meters) for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.

The video signal shall be fully isolated from the camera enclosure.

Cable terminations at the camera for video and power shall not require crimping tools.

A weather-proof protective cover shall be provided to protect all terminations at the camera. No special tooling shall be required to remove or install the protective cap.

The camera assembly shall include a temperature sensor. The sensor will be polled by the VDS every minute and will supply the current air temperature. The VDS software will display this information on the On-Screen Display for each camera.

B.6 VDS Software

B.6.1 General System Functions

Detection zones shall be programmed via an embedded application displayed on a video monitor and a keyboard and a pointing device connected to the CCU. The menu shall facilitate placement of detection zones and setting of zone parameters or to configure system parameters. A separate computer shall not be required for programming detection zones or to view system operation. All programming function shall occur on live video images, no snapshots or still images are allowed.

The VDS software shall store up to five completely independent detection zone patterns in non-volatile memory. The VDS can switch to any one of the three different detection patterns within 1 second of user request via menu selection with the pointing device. Each configuration shall be uniquely labeled and able to be edited by the user for identification. The currently active configuration indicator shall be displayed on the monitor.

The VDS shall detect vehicles and bicycles in real time as they travel across each detection zone.

The VDP shall automatically define a pedestrian crossing area, and track pedestrians in real-time as they travel across this pedestrian crossing area in both directions. The VDP shall count pedestrians moving left-to-right, and right-to-left. The VDP shall measure the speed of pedestrians moving left-to-right, and right-to-left, and provide the minimum, maximum, and average speed of the pedestrians per the bin interval. These values shall be displayed on-screen for both directions, and an option shall be provided to the user to turn this on-screen display on or off. This data will be stored in local memory for later retrieval via a remote device. The data will be stored at the Bin Interval set in the system.

The VDP shall provide a discrete output when pedestrians are being tracked in the crosswalk. A separate output may be assigned to each direction of pedestrian travel.

The VDP shall provide a discrete output when pedestrians are crossing against a red phase. The VDP shall allow up to 4 phase inputs to be assigned to each crosswalk.

The VDS shall accept new detection patterns from an external computer through the Ethernet port when the external computer uses the correct communications protocol for downloading detection patterns. A Windows™-based software designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system.

The VDS shall have the capability to automatically switch to any one of the stored configurations based on the time of day which shall be programmable by the user.

The VDS shall send its detection patterns to an external computer through the Ethernet port when requested when the external computer uses the appropriate communications protocol for uploading detection patterns.

The VDS shall default to a safe condition, such as a constant call on each active detection channel, in the event of unacceptable interference or loss of the video signal.

The VDS shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all affected detection zones in a constant call mode. A user-selected alarm output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists. An On-Screen Icon will be displayed while the system is in this mode.

Up to 32 detection zones per camera input shall be supported and each detection zone must be user-sizeable to suit the site and the desired vehicle detection region.

The VDS shall provide up to 32 open collector output channels per camera input using one or more extension modules.

The VDS shall provide a discrete output when pedestrians are being tracked in the crosswalk. Separate outputs may be assigned for pedestrians moving Left to Right and those moving Right to Left for each camera.

The VDS shall provide a discrete output when pedestrians are crossing against a red phase. The VDS shall allow up to 4 phase inputs to be assigned to each crosswalk.

A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may instead be AND'ed together to indicate vehicle presence on a single approach of traffic movement.

When a vehicle is detected within a detection zone, a visual indication of the detection shall activate on the video overlay display to confirm the detection of the vehicle for the zone.

Detection shall be at least 98% accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon site geometry, camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality.

The VDS shall provide dynamic zone reconfiguration (DZR). DZR sustains normal operation of existing detection zones when one zone is being added or modified during the setup process. The new zone configuration shall not go into effect until the configuration is saved by the operator.

Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system.

The VDS shall process the video input from each camera at 30 frames per second. Multiple camera processors shall process all video inputs simultaneously.

The VDS shall output a constant call during the background learning period of no longer than 3 minutes.

Detection zone outputs shall be individually configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse, extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds.

Up to six detection zones per camera view shall have the capability to count the number of vehicles detected. The count value shall be internally stored for later retrieval through the Ethernet port. The zone shall also have the capability to calculate and store average speed and lane occupancy at user-selectable bin intervals of 10 seconds, 20 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes and 60 minutes.

The system shall provide an automatic count function per lane for each movement of vehicles, which includes through moving, right, and left turning vehicles. Once standard detection zones have been configured the system will determine the path of vehicles and begin to track them. The data shall also have the capability to be stored at user-selectable bin intervals of 10 seconds, 20 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes and 60 minutes. The current count will be displayed on the video image. The current count display may be disabled by the user.

In addition any valid detector output may be assigned to the automatic count. For each count the associated detector output will be pulsed for 100mS.

In addition to the count type zone, the VDS shall be able to calculate average speed and lane occupancy for all of the zones independently. These values shall be stored in non-volatile memory for later retrieval.

The VDS shall have an "advance" zone type where raw detection output duration to the traffic controller is compensated for angular occlusion and distance.

The VDS shall employ color overlays on the video output.

The VDS shall have the ability to show controller phase status (green, yellow, or red) for up to 8 phases. These indications shall also be color coded.

The user shall have the ability to enable or disable the display of the phase information on the video output.

The VDS shall have the capability to change the characteristics of a detection zone based on external inputs such as signal phase. Each detection zone shall be able to switch from one zone type (i.e. presence, extension, pulse, etc.) to another zone type based on the signal state. For example, a zone may be a "count" zone when the phase is green but change to a "presence" zone type when the phase is not green. Another application would be zone type of "extension" when the signal phase is green and then "delay" when red.

The VDS software shall aid the user in drawing additional detection zones by automatically drawing and placing zones at appropriate locations with only a single click of the mouse. The additional zone shall utilize geometric extrapolation of the parent zone when creating the child zone. The process shall also automatically accommodate lane marking angles and zone overlaps.

When the user wishes to modify the location of a zone, the VDS software shall allow the user move a single zone, multiple zones or all zones simultaneously.

When the user wishes to modify the geometric shape of the zone, the VDS software shall allow the user to change the shape by moving the zone corner or zone sides.

On screen zone identifiers shall be modifiable by the user. The user shall be allowed to select channel output assignments, zone type, input status, zone labels or zone numbers to be the identifier.

The VDS shall have the capability to show pedestrian activity in the crosswalk through a visual indication on the video output.

The VDS software shall support bicycle type zones where the zone can differentiate between motorized vehicles and bicycles, producing a call for one but not the other.

Bicycle zone types shall only output when a bicycle is detected. Larger motorized vehicles such as cars and trucks that traverse a bicycle zone shall not provide an output.

The VDS software shall provide the ability to assign a separate output channel for bicycle zones to allow traffic controllers to implement special bicycle timing.

Placement of bicycle type zones in vehicle lanes shall be allowed.

Upon detection of a bicycle, the video output overlay shall indicate active detection as well as providing a unique bicycle detection identifier to visually distinguish bicycle detection versus vehicle detection.

Up to six bicycle detection zones per camera view shall have the capability to count the number of bicycles detected in addition to their normal detection function. The count value shall be internally stored for later retrieval through the Ethernet port.

The On-Screen Display shall include an Automatic Traffic Volume graph. This graph will display estimated Vehicles Per Hour (VPH) per movement for each camera view. The graph will display a rolling 24 hour period of VPH.

The On-Screen Display shall include an Occupancy Graph. This graph will display estimated approach occupancy for each camera view. The graph will display a rolling 24 hour period of Occupancy.

B.6.2 User Interfaces

This section sets forth the minimum requirements for the VDS to provide a single point interface to remote and local users. The VDS shall also have the capability to stream up to four simultaneous video streams over an Ethernet interface.

The user interface shall provide capabilities to enable multiple rack-mounted video detection processors to be locally and remotely accessed from a single point via an Ethernet connection.

The device shall allow the operator to view four videos simultaneously or any one video by controls embedded in the VDS.

Local user access to video detection programming shall be limited to the detection processor unit that is currently being displayed on the monitor.

All local programming and setup parameters for the video detection processor shall be user accessible through the interface unit without requiring the user to swap user interface cables between video detection processors.

Remote access to the device shall be through the built-in Ethernet port via access software running on a Microsoft Windows based personal computer.

A Windows OS remote access firmware shall also be available for remote setup and diagnostics of the interface unit.

The VDS shall support streaming video technology using H.264 standards to allow the user to monitor video detection imagery over the Ethernet interface. Motion JPEG streaming video shall not be allowed.

The interface unit shall allow eight independent streams, one from each video processor, to be transported via Ethernet to four independent streaming video players simultaneously in D1 resolution.

The interface shall allow the user to select the resolution of the displayed streamed video.

The interface unit shall support the streaming and display of eight concurrent streams in D1 resolution.

The VDS shall allow the user to manage the unit's Ethernet bandwidth usage by allowing the user to select high, medium or low resolution.

The interface shall allow the user to change the unit's Ethernet network settings of IP address, subnet mask and default gateway.

The VDS shall allow the user to upload new application firmware through the use of the interface, remotely or on-site.

A Windows OS based application will be provided to remotely view video streams from the VDS.

An iOS and Android based application shall be available to remotely access each configured VDS on the agency's network. This application shall allow the user to choose between any number of pre-configured intersection locations. Using the iOS or Android device, the application will allow the user to view live video from any camera at that intersection, including vehicle and bicycle detections in real-time. The application will also allow the user to view individual intersection data, including turning movement counts and occupancy. The application will show each data set in time periods of day, week, or month, and have the capability of turning on or off right, left, and through movement data for turning movement count data. The application will also allow the user to view current system diagnostic data, including the following, but not limited to; individual camera glare and low contrast information, system low contrast, constant call, alarm, reboots, logins, and menu access information.

B.6.3 SDLC Functionality

This section sets forth the minimum requirements for a full-function BIU and integrated video detection communication. The VDS shall provide outputs to the controller of vehicle calls from video processors that reside within the detector rack.

B.6.4 Functional Capabilities

The VDS shall have the capability of monitoring phase information and passing that information and other system data such as "time" from the controller to video detection processor modules. The VDP shall also accept data from video processor modules and relay the information to the controller. The unit shall provide a maximum of 64 detector outputs to the controller via the SDLC interface.

B.6.5 Requirements

The module shall be in compliance with the following industry specifications:

Transportation Electrical Equipment Specifications (TEES), August 16, 2002 (or latest edition), California Department of Transportation

NEMA Standard Publication TS 1-1989 (or latest edition), *Traffic Control Systems*, National Electrical Manufacturers Association

NEMA Standard Publication TS 2-2003, Traffic Controller Assemblies With NTCIP Requirements, Version 02.06 (or latest edition), National Electrical Manufacturers Association

B.6.6 Data Interfaces

The VDS shall have two data interfaces:

The interface to the controller shall be accomplished by the use of the TS-2 SDLC port and protocol according to the TS-2 specifications. The module shall be able to be configured to respond to BIU addresses 8, 9, 10 and 11 or a combination thereof.

The interface to communicate with card rack video detection processors shall be manufacturer specific.

B.6.7 DLC Communication Indicators

One LED indicator shall be provided for the TS-2 SDLC interface. The indicator shall be used to inform the user of any communication activity on the SDLC port.

B.7 Warranty

The manufacturer shall provide a limited three-year warranty on the video detection system.

During the warranty period, technical support shall be available from the supplier via telephone within 4 hours of the time a call is made by a user, and this support shall be available from factory-certified personnel or factory-certified installers.

During the warranty period, updates to VDP software shall be available from the supplier without charge.

B8 Maintenance and Support

The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the video detection system. These parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale for said parts.

The supplier shall maintain an ongoing program of technical support for the video detection system. This technical support shall be available via telephone, or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale for on site technical support services.

Installation or training support shall be provided by a factory-authorized representative and shall be a minimum IMSA-Level II Traffic Signal Technician certified.

All product documentation shall be written in the English language.

C Construction

Construct and assemble the system per manufacturer's instructions to make the video detection system fully operational.

The cable to be used between the camera and the CCU in the traffic cabinet shall be Cat5e, 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 Cat5e cable, RJ-45 connector, stripping and crimping tool shall be approved by the supplier of the video detection system, and the manufacturer's instructions must be followed to ensure proper connection.

The 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.

D Measurement

The department will measure Video Vehicle Detection System (Location) as a single complete lump sum unit of work, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.03	Video Vehicle Detection System Calhoun Rd & Burleigh Pl	LS

Payment is full compensation for furnishing and installing a properly functioning video detection system.

90. Construction Staking Water Main, Item SPV.0105.04.

A Description

Perform work according to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate stakes to within 0.02 feet of the true horizontal position at 50-foot intervals along the water main, and to establish the grade elevations within 0.01 feet of the true vertical position.

Place additional stakes as necessary to provide staking information at critical areas such as vertical and horizontal bends, tees, valves, hydrants, water services locations, and at intersecting storm sewer and/or sanitary sewer mains along the water main and lateral locations.

Determine offsets in conjunction with contractor requirements.

Provide cut sheets to the engineer and City of Brookfield for elevation reference.

D Measurement

The department will measure Construction Staking Water Main as a single complete lump sum unit of work, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.04	Construction Staking Water Main	LS

Payment is full compensation for locating and setting all construction stakes and providing cut sheet information; and for relocating and resetting damaged or missing construction stakes.

91. Construction Staking Sanitary Sewer, Item SPV.0105.05.

A Description

Perform work according to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations.

Provide stakes that establish the horizontal and grade elevation of sanitary structures and sanitary service laterals. Provide stakes for sanitary service laterals at intervals of 25 feet and at connections. Verify the invert elevations of existing structures as necessary. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional stakes as necessary to provide staking information at critical areas such as sanitary sewer services, connections, manholes, and at intersecting storm sewer and/or water mains along the sanitary sewer main and lateral locations.

Provide cut sheets to the engineer and City of Brookfield and contractor for elevation reference.

D Measurement

The department will measure Construction Staking Sanitary Sewer as a single complete lump sum unit of work, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.05	Construction Staking Sanitary Sewer	LS

Payment is full compensation for locating and setting all construction stakes and providing cut sheet information; and for relocating and resetting damaged or missing construction stakes.

92. Wall Modular Block Gravity Landscape, Sta. 223+50 LT, Item SPV.0165.01; Wall Modular Block Gravity Landscape, Sta. 276+50 RT, Item SPV.0165.02.

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 Landscape Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit electronically to the engineer and Bureau of Structures for review and acceptance. 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 from front face to back face of the wall shall be included in the design computations and shown on the wall shop drawings. 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 or base aggregate leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a concrete leveling pad or base aggregate leveling pad. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Concrete leveling pads shall be as wide as the proposed blocks plus six inches, with six inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

Base aggregate leveling pads shall be as wide as the blocks plus 12 inches, and the modular blocks shall be centered on the leveling pad. The minimum thickness of the leveling pad shall be 12-inches after compaction. The leveling pad shall be made from base aggregate dense 1 1/4-inch in conformance with standard spec 305.

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 type and 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 depth (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1 3/4 inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

For concrete leveling pad, use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

For base aggregate leveling pad conform to item 305.0120 Base Aggregate Dense 1 1/4-Inch.

B.3.2 Material Testing

Provide independent quality verification testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140	5000 min.	4000 min.
Air Content (%)	AASHTO T152	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140	6 max. ^[3]	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262 ^[1]	1.0 max. ^{[2][3]} 1.5 max. ^{[2][3]}	N/A

[1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.

[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

[3] The independent testing laboratory shall control and conduct all sampling and testing. Prior to sampling, the manufacturer's representative shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project. If a random sample of five blocks of any lot tested by the department fails to meet any of the above testing requirements, the entire lot will be considered non-conforming.

The contractor and fabricator shall coordinate with the independent testing agency to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number and lot size

Testing of project materials shall be completed not more than 18 months prior to delivery. Independent testing frequency shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or one 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 209.2.2 of the standard spec. 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.

D Measurement

The department will measure Wall Modular Block Gravity Landscape by the square foot acceptably completed, measured at the front face of wall as defined by the pay limits the contract plans show. Unless the engineer directs in writing, a change to the limits indicated on the contract plan, wall area constructed above or below these limits will not be measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Wall Modular Block Gravity Landscape, Sta. 223+50 LT	SF
SPV.0165.02	Wall Modular Block Gravity Landscape, Sta. 276+50 RT	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 and leveling pad; constructing the retaining system including drainage system; providing backfill, backfilling, compacting, and performing compaction testing.

Payment limit for all walls is the line of minimum embedment per section B.2. No payment will be made for additional embedment detailed for construction purposes.

Parapets, railings, and other items above the wall cap or coping will be paid for separately. Vehicle barrier and its support will be paid separately.

Any required topsoil, fertilizer, seeding or sodding and mulch will be paid for at the contract unit price for those items.

93. Proof Rolling, Item SPV.0170.01.

A Description

This special provision describes testing the stability of the compacted subgrade by rolling with a tri-axle dump truck and supplements standard spec 205.3.13.

B Materials

Furnish a fully load a tri-axle dump truck to within 3 tons of the vehicle legal load limits and provide a minimum gross vehicle weight of 30 tons. Uniformly inflate all tires to the pressure recommended by the tire manufacturer for the applicable wheel load.

C Construction

Completely compact and shape the subgrade to approximate grade. Test roll at normal walking speed at the direction of the engineer. Roll the subgrade across the entire roadway. Make multiple passes throughout the length of the test area. Proof rolls conducted without the direction of the engineer will not be paid for. Do not proof roll while the subgrade is wet or while the subgrade is saturated enough that the strength of the soil is less than under normal conditions. The engineer shall make the final determination of when the subgrade is suitable for a proof roll. Excavation below subgrade and backfill will be paid for using other bid items.

D Measurement

The department will measure Proof Rolling by the station, acceptably completed. For divided roadways, separate payment will be made for each roadway.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0170.01	Proof Rolling	STA

Payment is full compensation for providing a fully loaded tri-axle dump truck, for performing the proof roll, for retesting as determined by the engineer, and for all other incidentals necessary to complete the work.

94. Reinforced Polyethylene Sheeting, Item SPV.0180.01.

A Description

This special provision describes providing string reinforced polyethylene sheeting.

B Materials

Furnish 6 mil or thicker polyethylene sheeting with a heavy duty scrim reinforcement conforming to ASTM E-84-97a.

C Construction

Install reinforced polyethylene sheeting according to standard spec 628.3.9.

D Measurement

The department will measure Reinforced Polyethylene Sheeting by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Reinforced Polyethylene Sheeting	SY

Payment is full compensation for furnishing and delivering the sheeting to the project site; for storing on the project; for installing the sheeting; for securing the sheeting and sealing the edges of the sheeting; for removing the sheeting; and for disposing of eroded material and the sheeting after it is no longer required.

95. Polystyrene Insulation, Item SPV.0180.02.

A Description

This special provision describes furnishing and placing polystyrene insulation board as shown on the plans and as hereinafter provided.

B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230, except as hereinafter revised. Delete flammability requirement.

C Construction

Insulation shall be used where a water main and/or water service crosses a storm sewer. Insulation shall be installed at locations shown on the plans and as directed by the engineer according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, File No. 48.

Insulation shall be installed in two layers for a total of 4-inches thickness. Joints between such layers shall be staggered.

D Measurement

The department will measure Polystyrene insulation by area in square yards, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.02	Polystyrene Insulation	SY

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

96. Rebuild Sanitary Sewer Manhole, Item SPV.0200.01.

A Description

This special provision describes the rebuilding of City of Brookfield sanitary sewer manholes identified from below the bottom of the existing cone section to the top of frame and casting. Perform this work according to the pertinent provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments, except as herein modified.

B Materials

Rebuild manhole using a precast cone section, additional precast barrel sections as necessary, and concrete adjusting rings and mortar per City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

C Construction

Perform work according to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition and all amendments. Set manhole frames to finished grade. All work shall be per City of Brookfield Standard Detail Plate No. 011 and Plate No. 011A.

The contractor shall remove the existing cone section or deck and any necessary barrel sections, salvage the existing frame and casting, install new barrel(s), deck or cone section, construct the chimney section, and reset the salvaged frame and casting to proposed grade.

The proposed curb line shall be verified for any castings located near the curb line. The contractor shall rotate the cone or top section as necessary to avoid or minimize impact to the curb line.

A sanitary manhole seal shall be installed upon completion of the work performed.

Contact the Brookfield Engineering Department to schedule inspection, at (262) 787-3919, three days prior to work being performed.

D Measurement

Rebuild sanitary sewer manhole shall be measured per vertical foot (VF) from the bottom of the lowest barrel section removed to the top of the frame and casting, as designated in the plans and 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	Rebuild Sanitary Sewer Manhole	VF

Payment is full compensation for rebuilding existing manholes from the bottom of the lowest barrel section removed to the top of the frame and casting, removals, excavation, and backfilling; adjusting the existing manhole frame and casting to finish grade.

Any additional adjustments required to perform this work or additional adjustments, as directed by the engineer, will be considered incidental.

Sanitary manhole seals and any new sanitary manhole frames and castings shall be paid for separately.

**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.

I. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

- (1) At time of bid, ALL prime contractors shall submit Form DT1506 (Commitment to Subcontract to DBE), and signed Attachments A. If the assigned DBE contract goal is not met, Form DT1202 (Documentation of Good Faith Effort) is due at time of bid. Supplemental DT1202 documentation is due within 24-hours of bid closing, submitted to the DBE Alert email box. Any change to DBE commitments thereafter must follow Modification of DBE Subcontracting Commitment (Section 9).
- (2) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid Shopping is prohibited.
- (3) The contractor shall utilize the specific DBE firms listed on the approved Form, DT1506, to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent from WisDOT. The contractor shall not be entitled to payment for any work or materials on the approved DT1506 that is not performed or supplied by the listed DBE without WisDOT's written consent.

Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's Standard Specifications and Construction Materials Manual. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

- (1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

- (2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
 - § Produce accurate and complete quotes
 - § Understand highway plans applicable to their work
 - § Understand specifications and contract requirements applicable to their work
 - § Understand contracting reporting requirements
- (3) The department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit WisDOT's Civil Rights and Compliance Section website at: <http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.
- b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.
- c. **DBE:** Disadvantaged Business Enterprise- for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.
- d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal.
- e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of Form DT1506, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved Form DT1506, and those submitted after approved commitment with Attachment A.
- f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.
- g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
- h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.

- i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
- j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote shall not be separated.

2. WisDOT DBE Program Compliance

a. Documentation Submittal

The Commitment to Subcontract to DBE (Form DT1506) and signed Attachments A shall be submitted at bid by ALL prime contractors. If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) is due at time of bid. Supplemental DT1202 documentation is due within 24-hours of bid closing, submitted to the DBE Alert email box.

Naming conventions: When emailing files, please use the following language to identify your submission-
"Project #, Proposal #, Let date, Business Name, GFE" Email: DBE_Alert@dot.wi.gov

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the Form DT1506, Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

(1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the department will evaluate Form DT1506 and Attachments A to verify the actual DBE percentage calculation. If the DBE commitment is verified, the contract is eligible for award with respect to the DBE commitment.

(2) DBE Goal Not Met

- a) If the bidder indicates a bid percentage on Form DT1506 that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through submission of Form DT1202 (Documentation of Good Faith Effort) at the time of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is due within 24-hours of bid submission and prior to bid posting. The department will review the bidder's DBE commitment and evaluate the bidder's good faith efforts submission.
- b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the department intends to:
 - 1. *Approve* the request (adequate documentation of GFE has been submitted)- no conditions placed on the contract with respect to the DBE commitment;
 - 2. *Deny* the request (inadequate documentation of GFE has been submitted)- the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.
- c) If the department denies the bidder's request, the contract is ineligible for award. The department will provide a written explanation for denying the request to the bidder. The bidder may appeal the department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted to the DBE Office by email at: DBE_Alert@dot.wi.gov or by postal mail - ATTN: DBE Office, PO Box 7986, Madison, WI 53707-7986. Email naming convention: "Project #, Proposal #, Let date, Business Name, GFE"

3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

- (1) Documents that it has obtained enough DBE participation to meet the goal; OR
- (2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

Appendix A of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

a. Solicitation guidance for Prime Contractors:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.
- (2) As needed, request assistance with DBE outreach and follow-up by contacting the department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: DBE_Alert@dot.wi.gov
- (3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.
- (4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix B.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE firms to do work in a prime contractor's area of specialization.

- i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to DBE_Alert@dot.wi.gov
 - ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C):
 - <https://www.bidx.com/wi/main>, postal mail, email, fax, and phone.
 - a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter*, Appendix B. This letter may be included as an attachment to the sub-quote request.
 - b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
 - c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.
 - iii. Upon request, provide interested DBE firms with adequate information about plans, specifications, and the requirements of the contract by letter, information session, email, phone call, and/or referral.
 - iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.
 - v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
 - a. Email to all prospective DBE firms in relevant work areas
 - b. Phone call log to DBE firms who express interest via written response or call
 - c. Fax/letter confirmation
 - d. Signed copy of record of subcontractor outreach effort
- b. Guidance for Evaluating DBE quotes
- (1) Quote evaluation practices required to evaluate DBE quotes:
 - i. Reasonable Price: Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).
 - (2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:
 - i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, **a discussion** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
 - a. In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
 - b. Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:
 - i. Compare bid items common to both quotes, noting the reasonableness in the price comparison.

- ii Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices*.

- c. Requesting Good Faith Effort Evaluation: At the time of bid- if the DBE goal is not met in full, the prime contractor must request alternative Good Faith Effort Evaluation using form DT1202- Documentation of Good Faith Effort. Supplementary documentation of good faith effort that supports the DT1202 submission is due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:
- (1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.
 - (2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.
 - (3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.
 - (4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.
 - (5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.
 - (6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials
 - (7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Naming conventions: When emailing files, please use the following language to identify your submission-
 "Project #, Proposal #, Let date, Business Name, GFE" Email: DBE_Alert@dot.wi.gov

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved Form DT1506. No contractor, prime or subsequent tier, shall be paid for completing work assigned to a DBE subcontractor on an approved DT1506 unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE commitment, **they will not be paid for the work**. Any changes to DBE commitment after the approval of Form DT1506 must be reviewed and approved by the DBE Office prior to the change (see Section 9).

4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the department's decision to deny the bidder's demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the department's denial notice. The bidder may meet in person with the department if so requested. Failure to appeal within 5 business days after receiving the department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The department's decision is final.

5. Determining DBE Eligibility

Directory of DBE firms

- a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: <http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.
- c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

6. Counting DBE Participation

Assessing DBE Work

The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the UCP agencies. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:

- a. The department counts work performed by the DBE firm's own resources. The department includes the cost of materials and supplies the DBE firm obtains for the work. The department also includes the cost of equipment the DBE firm leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.
- b. The department counts fees and commissions the DBE subcontractor charges for providing bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the program engineer deems reasonable based on experience or prevailing market rates.

- c. If a DBE firm subcontracts work, the department counts the value of the work subcontracted to a DBE subcontractor.
- d. The contractor shall 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 shall inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.
- h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission-
"Project #, Proposal #, Let date, Business Name, Attachment A" Email: DBE_Alert@dot.wi.gov

*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

7. Credit Evaluation for Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at: <http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: <https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf>

See Section 8 for Broker credit.

8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer, supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

a. Manufacturers

- (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

b. Regular Dealers of Material and/or Supplies

- (1) Supplies purchased in bulk from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.
- (2) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
- (3) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
- (4) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
 - i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
 - ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.
- (5) When DBE suppliers are contracted, additional documentation must accompany form DT1506 and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.
 - i. The bidder should respond to the following questions and include with submission of form DT1506:
 - a. What is the product or material?
 - b. Is this item in the prime's inventory or was the item purchased when contract was awarded?
 - c. Which contract line items were referenced to develop this quote?
 - d. What is the amount of material or product used on the project?

c. Brokers, Transaction 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 DT1506 *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE commitment do not require advance notification of the DBE office. (see D below)

Contractor Considerations

1. A prime contractor cannot modify the DBE commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved DT1506 without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.
2. If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the department regarding the DBE utilization.
3. The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal.
4. When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.
5. In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.
6. The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they shall advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.

(a) Before the Prime Contractor can request modification to the approved DT1506, the Prime Contractor must:

- i. Make every effort to fulfill the DBE commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.
- ii. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.
- iii. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.
- iv. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. **EXCEPTION:** The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.

- v. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

B. Request to Modify DBE Subcontracting Commitment

The written request referenced above may be delivered by email or fax. The request must contain the following:

1. Project ID number
2. WisDOT Contract Project Engineer's name and contact information
3. DBE subcontractor name and work type and/or NAICS code
4. Contract's progress schedule
5. Reason(s) for requesting that the DBE subcontractor be replaced or terminated
6. Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: DBE_Alert@dot.wi.gov + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor
- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required
- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract

C. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE subcontracting commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved Form DT1506 is the DBE Program Engineer who can be reached at DBE_Alert@dot.wi.gov or (608) 264-9528.

D. DBE Utilization beyond the approved DBE Commitment (Form DT1506)

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

- a. Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DT1506 based on the email/discussion and the new Attachment A.
- b. When adding to an existing DBE commitment, submit a new Attachment A to the DBE Alert mailbox
- c. OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, New Attachment A" Email: DBE_Alert@dot.wi.gov

Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. \$1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting

10. Commercially Useful Function

- a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.
- b. The department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- c. A DBE firm is performing a commercially useful function if the following conditions are met:
 - (1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.
 - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work

areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

12. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces, for DBE credit.

13. Mentor-Protégé

- a. If a DBE performs as a participant in a mentor-protégé agreement, the department will credit the portion of the work performed by the DBE protégé firm.
- b. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.
- c. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
 - (1) Request should be made when Form DT1506 or when the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
 - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
 - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
 - (4) The joint check for supplies must be strictly for the cost of approved supplies.
- b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an 'extra participant' in the transaction. The DBE firm's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following:
 - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.

- (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor.
 - (1) The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.
 - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor's negotiated unit price.

15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

Appendix A

Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released 5 weeks prior to each Let)

- Determine DBE subcontractor's interest in quoting
- If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
- Assess their interest and experience in the road construction industry by asking questions such as:
 1. Have you competed for other WisDOT contracts? Ratio of competed/to wins
 2. Have you performed on any transportation industry contracts (locally or with other states)?
 3. What the largest contract you've completed?
 4. Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
 5. Does this project fit into your schedule? Are you working on any contracts now?
 6. Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
 7. What region do you work in? Home base?
 8. Which line items are you considering?
 9. Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
 10. Do you understand where your work fits in the project schedule, project phases?

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 requirement

GFESAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: **REQUEST FOR DBE QUOTES**
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation **Month- date -year** Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <http://roadwaystandards.dot.wi.gov/hcci/>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by **time deadline** the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but **prime's alternatives** are acceptable. Our office hours are **include hours and days**.

Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at **contact number**.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <http://roadwaystandards.dot.wi.gov/hcci/>
All questions should be directed to:

Project Manager, John Doe, Phone:
(000) 123-4567
Email: Joe@joetheplumber.com
Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2
This sample is provided as a guide not a requirement

REQUEST FOR QUOTE

Prime's Name: _____
Letting Date: _____
Project ID: _____

Please check all that apply

- ☐ Yes, we will be quoting on the projects and items listed below
- ☐ No, we are not interested in quoting on the letting or its items referenced below
- ☐ Please take our name off your monthly DBE contact list
- ☐ We have questions about quoting this letting. Please have someone contact me at this number

Prime Contractor 's Contact
Person

DBE

Contractor Contact Person

Phone: _____ Phone: _____

Fax: _____ Fax: _____

Email: _____ Email: _____

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clearing and Grubbing	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X

Trees/Shrubs	X						X
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Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

Appendix C

Small Business Network (SBN) Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
 - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for later completion.
2. Create sub-quotes for the subcontracting community:
 - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
 - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
 - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE preferred request.
 - d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
 - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
 - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
 - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a "Good Faith" effort in reaching out to the DBE community.
 - b. Easily locate pre-qualified and certified small and disadvantaged businesses.
 - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
 - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. **DBE firms can:**

1. View and reply to sub-quote requests from primes:
 - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
 - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
 - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes.
 - c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
 - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
 - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
 - c. Add attachments to a sub-quote.
 - d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime.
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to www.bidx.com and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.
 - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588.

APPENDIX D

Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications, and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TRANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

GFE EVALUATION RUBRIC – PHASE 1

	Active & Aggressive Category	Quality Category	Quantity Category	Scope & Intensity Category	Timing Category	Business Develop't Efforts	Total=
Solicitation Documentation							
Selected Work Items Documentation							
Documentation of Project Information provided to Interested DBEs							
Documentation of Negotiation with Interested DBEs							
Documentation of Sound Reason for Rejecting DBEs							
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials							
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support							
Documentation of other GFE activities							
Overall Total=							

GFE EVALUATION RATING LEGEND – PHASE 1

ACTIVE & AGGRESSIVE: Demonstrated through engaged and assertive activity

QUALITY: Demonstrated through essential character of conscientious and serious activity

QUANTITY: Demonstrated through a measurable number of activities

SCOPE & INTENSITY: Demonstrated through a rigorous approach to an appropriate and purposeful range of activities

TIMING: Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process

BUSINESS DEVELOPMENT INITIATIVES: Demonstrated by efforts to support business growth and health of DBEs

Rating Scale

- **Each qualifying activity is worth 5 points per Category**
- **Documented efforts must receive 55 points or more to qualify for Phase 2 GFE evaluation**
 - **Pro Forma efforts= 0-50 points**
Perfunctory effort characterized by routine or superficial activities
 - **Bona Fide= 55+ points**
Genuine effort characterized by sincere and earnest activities

GFE EVALUATION – PHASE 2**DBE Office completes:**

- Review of quote comparisons submitted by Prime
- Bid analysis to confirm is any bid submitted met the DBE goal
- Team review of combined efforts documented in Phase 1 and 2 by apparent low bidder

APPENDIX E

Good Faith Effort Best Practices

This list is not a set of requirements; it is a list of potential strategies

Primes

- Ø Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance.
- Ø Participate in speed networking and mosaic exercises as arranged by DBE office.
- Ø Host information sessions not directly associated with a bid letting.
- Ø Participate in a formal mentor protégé or joint venture with a DBE firm.
- Ø Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Ø Facilitate a small group DBE ‘training session’ clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications, and communication methods.
- Ø Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Ø Quality of communication, not quantity creates the best results. Contractors should be thorough in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- Ø DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Ø Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Ø Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list and bid tabs at a minimum.
- Ø Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation related projects of similar size and scope, firm expertise and staffing.
- Ø Participate in DBE office assessment programs.
- Ø Participate on advisory and mega-project committees.
- Ø Sign up to receive the DBE Contracting Update.
- Ø Consider membership in relevant industry or contractor organizations.
- Ø Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX F

Good Faith Effort Evaluation Guidance

Appendix A of 49 CFR Part 26

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, Part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, you have the responsibility to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made, based on the regulations and the guidance in this Appendix.

The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call. Determinations should not be made using quantitative formulas.

III. The department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. (1) 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

COMMITMENT TO SUBCONTRACT TO DBE

DT1506 6/2020 s.84.06(2) Wis. Stats.

Wisconsin Department of Transportation

Project(s):

Prime Contractor:

County:

Letting Date:

This contract requires that a specified percentage of the work be subcontracted to a disadvantaged business enterprise and that this information be submitted as described in ASP-3. Completion of the following information indicates your intent in the fulfillment of these contract requirements.

Total Value of Prime

Contract:

DBE Contract Goal %:

DBE Contract Goal \$:

\$

Goal metThis form must be completed and returned for **THIS** contract. See reverse side for instructions.

A	V	NAME OF DBE SUBCONTRACTOR	TYPE OF WORK	SUBCONTRACT \$ VALUE		Government Use Only Adjusted Amounts
		SUBTOTAL DBE \$ VALUE	A (\$)	\$	- TOTAL %	#DIV/0!
			V (\$)	\$	- TOTAL %	#DIV/0!

A	V	NAME OF DBE SUPPLIER AND/OR MANUFACTURER (see #3 on Instructions)	TYPE OF MATERIAL	SUBCONTRACT \$ VALUE		Government Use Only Adjusted Amounts
		SUBTOTAL DBE \$ VALUE	A (\$)	\$	- TOTAL %	#DIV/0!
			V (\$)	\$	- TOTAL %	#DIV/0!

A	V	NAME OF DBE TRUCKING FIRM	MATERIAL HAULED	EST. # OF TON/C.Y.	EST. # OF TRUCKS REQ'D	\$ VALUE	Government Use Only Adjusted Amounts
					O= L=		
					O= L=		
					O= L=		
					O= L=		
					O= L=		
		SUBTOTAL DBE \$ VALUE	A (\$)	\$	- TOTAL %	#DIV/0!	
			V (\$)	\$	- TOTAL %	#DIV/0!	
		GRAND TOTAL DBE \$ VALUE	A (\$)	\$	- TOTAL %	#DIV/0!	
			V (\$)	\$	- TOTAL %	#DIV/0!	
			T =	\$	- TOTAL %	#DIV/0!	

I certify that arrangements have been made for the foregoing work with the listed DBE Contractors. I further understand that any willful falsification, fraudulent statement or misrepresentation will result in appropriate sanctions, which may include debarment and/or prosecution under applicable State (Trans 504) and Federal laws.

O = Owned Trucks Used on Project
L = Leased Trucks Used on Project

A = Assigned (DBE Conscious)
V = Voluntary (DBE Neutral)

Government Use Only Approved Amounts

X

A

\$

%

(Authorized Agent)

V

\$

%

Date

Total

\$

%

Preferred submission method: DBE_Alert@dot.wi.gov

Or:

Signature:

Date:

Mail to: Wisconsin Department of Transportation
DBE Programs Office, 5th Floor
PO Box 7986
Madison, WI 53707-7986

DBE goal waiver granted: Yes

No

Proposal Number :

Instructions For Completing Commitment To Subcontract To DBE Form:

- 1 In accordance with the DBE Regulations (49 CFR part 26), WisDOT is tracking Assigned Goals for DBE's (DBE Conscious) and Voluntary Usage of DBE Firms (DBE Neutral). DBE participation reported on this form will be used to periodically adjust (DBE Conscious and DBE Neutral) components of WisDOT's overall annual DBE goal.
- 2 For each DBE firm listed on this form, place an "x" in the appropriate column to indicate whether it will be used to meet the Assigned Goal (A) and/or whether it is used on a Voluntary basis (V). Any achievement above assigned goals should be reported as a voluntary achievement. If you indicate that a firm will be used to meet both assigned and voluntary goals, indicate the dollar amount attributable to assigned goals and the amount attributable to the voluntary goal. Our objective is to capture all DBE achievement you generate. The following is an example:
 - a. The total contract amount is \$100,000 and the DBE goal is 10% or \$10,000 in DBE participation
 - b. If \$10,000 is the subcontract dollar value to ADBE Landscaping Co. then \$10,000 would be Assigned (DBE Conscious) and you would place an "x" in the "A" column
 - c. If \$15,000 is the subcontract dollar value to ADBE Landscaping Co. then \$10,000 would be Assigned (DBE Conscious) and you would place an "x" in the "A" column and ADBE Landscaping Co. would be listed on the next line for \$5,000 which would be Voluntary (DBE Neutral) and an "x" would be placed in the "V" column
- 3 The department will give full credit toward the DBE goal if the DBE is a manufacturer of their materials or supplies. The department will give 60 percent credit or brokerage fee set by industry's standard toward the DBE goal if the DBE is merely a supplier of these materials or supplies. Drop shipment by a supplier will earn a 10 percent DBE credit. It is the Prime Contractor's responsibility to use the Bidder's List or UCP Directory to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form. WisDOT will apply the appropriate credit when approving the form.
- 4 After completing the form, if it does not indicate that the DBE goal has been met or exceeded, please complete and supply the necessary documentation on the Documentation of Good Faith Effort form (DT1202)

Instructions For Completing Attachment A Form:

- 5 Section 26.53 (49 CFR part 26) requires written confirmation of participation from each DBE firm to be used on the contract. Please submit one copy of a completed Attachment A, Confirmation of Participation form, for each DBE firm to be used on this contract. Each form must be signed by the Prime Contractor, the hiring contractor (if applicable) and the DBE Firm specified on the form.
- 6 DBE crediting for the trucking industry is achieved in the following manner:
 - a. A minimum of one truck owned by the DBE must be used on the contract.
 - b. Full DBE credit is given for owned trucks and trucks leased from another DBE.
 - c. Trucks leased from non-DBE firms will be given DBE credit of 10% of the subcontract value.
 - d. All trucks used for credit must be listed and approved on the DBE firm's Schedule of Owned/Leased Vehicles for DBE Credit and/or a WisDOT approved trucking utilization plan.

It is the Prime Contractor's and the DBE firm's responsibility to ensure that utilization of trucks and the DBE credit earned is in accordance with the above and will yield the subcontract dollar value listed on the Commitment to Subcontract to DBE form.

Please submit documents to: DBE_Alert@dot.wi.gov

Identify Project#, Proposal#, Let date, Business Name, DT1506 and/or Attachment A in the **email subject line**.

If you have questions about filling out these forms, please contact the Civil Rights and Compliance Office at (608) 266-0503.

CONFIRMATION OF PARTICIPATION			
Project I.D.:		Proposal Number:	
Letting Date:		Total \$ Value of Prime Contract:	
Name of DBE Firm Participating in this Contract:			
Name of the Prime/Subcontractor who hired the DBE Firm: <i>(list all names of tiers if more than one)</i>			
Type of Work or Type of Material Supplied:			
Total Subcontract Value:			
FOR PRIME CONTRACTORS ONLY: I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.		Prime Contractor Representative's Signature	
		Prime Contractor Representative's Name (Print Name)	
		Prime Contractor (Print Company Name)	
		Date	
FOR PARTICIPATING DBE FIRMS ONLY: I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above. FOR DBE TRUCKING FIRMS ONLY: I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks and material hauled as listed below.		Participating DBE Firm Representative's Signature	
		Participating DBE Firm Representative's Name (Print Name)	
		Participating DBE Firm (Print Company Name)	
		Date	
# Owned Trucks	# Leased Trucks	# Estimated Tons/C.Y.	Material(s) Hauled

Official Form DT1506 can be found here: www.wisconsin.gov/DBEcontracting



DOCUMENTATION OF GOOD FAITH EFFORT Wisconsin Department of Transportation DT1202 3/2020

Project ID XXXX	Proposal No. XXXX	Letting XXXX
Prime Contractor XXXX	County XXXX	
Person Submitting Document XXXX	Telephone Number XXXX	
Address XXXX	Email Address XXXX	

All bidders must undertake necessary and reasonable steps to achieve the assigned DBE contract goal per federal regulatory guidance at 49 CFR Part 26. Bidders use this form to document all efforts employed to meet the assigned goal as a record of contractor good faith efforts (GFE). Refer to ASP3 or 49 CFR Part 26 for guidance on actions that demonstrate good faith effort.

It is critical to list all efforts, attach documentation, and follow the instructions to complete this submission. Documentation of good faith effort includes copies of each DBE and non-DBE subcontractor quote submitted to the bidder for the same line items. Utilize the sample documentation logs to document and organize efforts.

Submit good faith effort documentation per ASP-3 guidelines.

Instructions: Provide a narrative description of all activities pursued to demonstrate good faith efforts, any corresponding documentation, and applicable explanation on separate pages. Include the following items organized in the order listed below.

1. Solicitation Documentation:

- a. **Purpose:** To identify all reasonable and available activities the bidder performed to solicit the interest of all certified DBEs who have the capacity and ability to perform work on the project. All solicitation efforts should begin as early as possible to ensure DBEs have ample time to respond and ask questions.
- b. **Action:** Identify and list all activities engaged in to solicit DBEs using all reasonable and available means such as written notice and follow-up communications, substantive conversations, pre-bid meetings, networking events, market research, advertising.

2. Selected Work Items Documentation:

- a. **Purpose:** To ensure that all work items are broken out into economically feasible units to facilitate DBE participation. This must occur even when you prefer to perform the work yourself.
- b. **Action:** Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

3. Documentation of Project Information provided to Interested DBEs:

- a. **Purpose:** To provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.
- b. **Action:** Provide DBEs access to plans, specifications, and other contract requirements. Early solicitation allows ample opportunity to provide project information, links to Let advertisements, and substantive engagement with DBEs.

4. → Documentation of Negotiation with Interested DBEs:

a. → Purpose: To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

b. → Action: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

5. → Documentation of Sound Reason for Rejecting DBEs:

a. → Purpose: To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

b. → Action: Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

6. → Documentation of Assistance to Interested DBEs--Bonding, Credit, Insurance, Equipment, Supplies/Materials:

a. → Purpose: To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

b. → Action: Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

7. → Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:

a. → Purpose: To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

b. → Action: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:
 Wisconsin Department of Transportation
 DBE Program Office
 PO Box 7965
 Madison, WI 53707-7965
 DBE_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

		(Bidder/Authorized Representative Signature)
		(Print Name)
		(Title)

Good-Faith-Effort--Sample-Documentation-Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote

SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email; left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: www.wisconsindot.gov/DBEcontracting

ADDITIONAL SPECIAL PROVISION 4

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor is not allowed to withhold retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

ADDITIONAL SPECIAL 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 \$1.15 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.

Additional Special Provision 6**ASP 6 - Modifications to the standard specifications**

Make the following revisions to the standard specifications:

102.1 Prequalifying Bidders

Replace paragraph two with the following effective with the October 2020 letting:

- (2) Furnish a dated prequalification statement on the department's form at least 10 business days before the time set for the letting to close.

102.6 Preparing the Proposal

Replace the entire text with the following effective with the October 2020 letting:

102.6.1 General

- (1) Submit completed proposals on the department's bidding proposal described in 102.2. Submit legible information only. Write everything in ink, by typewriter, or by computer-controlled printer. Provide all dollar amounts in dollars and cents, in numerals. Attach all addenda to the submitted proposal.
- (2) Properly execute the proposal. Place the required signatures, in ink, in the space provided on the bidding proposal as indicated below:

ENTITY SUBMITTING PROPOSALREQUIRED SIGNATURE

Individual The individual or a duly authorized agent.

Partnership A partner or a duly authorized agent.

Joint venture A member or a duly authorized agent of at least one of the joint venture firms.

Corporation An authorized officer or duly authorized agent of the corporation. Also show the name of the state chartering that corporation and affix the corporate seal.

Limited liability company A manager, a member, or a duly authorized agent.

- (3) Instead of using the schedule of items provided on the department's bidding proposal, the bidder may submit a substitute schedule with the proposal. Use a format for the substitute schedule conforming to the department's guidelines for approval of a bidder-generated schedule of items. Obtain the department's written approval before using a substitute schedule.
- (4) Provide a unit price for each bid item listed in the schedule of items. Calculate and show, in the bid amount column, the products of the respective unit prices and quantities. For a lump sum bid item, show the same price in the unit price column and in the bid amount column pertaining to that bid item. Show the total bid obtained by adding the values entered in the bid amount column for the listed bid items.
- (5) If a unit price or lump sum bid already entered in the proposal needs to be altered, cross out the entered unit price or lump sum bid with ink or typewriter and enter the new price above or below and initial it in ink.
- (6) A change that the bidder makes in the proposal is not an alteration if the bidder makes that change as directed in a specific instruction contained in an addendum.

102.6.2 Disadvantaged Business Enterprise (DBE) Commitment

- (1) Before the letting is closed, submit the following documentation for proposals with a DBE goal:
1. Commitment to subcontract to DBE on department form DT1506.
 2. Attachment A for each subcontractor listed on the DT1506.
 3. If the DBE goal is not attained, certificate of good faith efforts on department form DT1202.
- (2) Within 24 hours after the letting is closed, email all supplemental documentation for the DT1202 verifying efforts made to attain the DBE goal to DBE_Alert@dot.wi.gov.

102.7.2 Department May Reject

Replace paragraph one with the following effective with the October 2020 letting:

- (1) Proposals are irregular and the department may reject them for one or more of the following reasons:
 1. The proposal contains unauthorized alterations of format, words, or figures.
 2. The schedule of items contains errors, alterations, or omissions in, bid item numbers, quantities, descriptions, or units of measure, that cannot be corrected as specified in 102.7.1.
 3. The proposal is not prepared as specified in 102.6.
 4. There are unauthorized alterations, additions, conditional or alternate bids, amendments, attachments, or irregularities that may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.
 5. There are unauthorized erasures or alterations appearing on the designation of the party to whom the department issued the bidding proposal.
 6. The award of the bid, together with the value of the bidder's uncompleted contract work, exceeds the bidder's established ratings, as determined in 102.1, at the time set for awarding the work.
 7. A single entity, under the same or different names, or affiliated entities submit more than one proposal for the same work. The submitting entity may be an individual, partnership, joint venture, corporation, or limited liability company.
 8. Does not submit the DBE forms and required supplemental documentation of the good faith efforts as specified in 102.6.2.

102.12 Public Opening of Proposals

Replace paragraph one with the following effective with the October 2020 letting:

- (1) The letting will close at the time and place indicated in the notice to contractors. The department will publicly open and post the total bid for each proposal on the Bid Express web site beginning at noon on the day after the letting is closed except as specified in 102.7.3 and 102.8. If a proposal has no total bid shown, the department will not post the bid. After verification for accuracy under 103.1, the department will post bid totals on the HCCI web site.

<https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

103.1 Consideration of Proposals

Replace paragraph one with the following effective with the October 2020 letting:

- (1) Following the public opening of the proposals received, the department will compare them based on the summation of the products of the quantities of work listed and the contract unit prices offered. In case of discrepancies, errors, or omissions, the department will make corrections as specified in 102.7.1. In awarding contracts, the department, in addition to considering the amounts stated in the proposals, may consider one or more of the following:
 1. The responsibility of the various bidders as determined from a study of the data required under 102.1.
 2. The responsiveness of the bid as determined under 102.6.
 3. Information from other investigations that the department may make.

107.17.1 General

Replace paragraph four with the following effective with the November 2020 letting:

- (4) Comply with the railroad's rules and regulations regarding operations on or near the railroad right-of-way as follows:
 - When working on the railroad right-of-way.
 - When working within 25 feet of the track centerline or adjacent facilities, including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities.

If the railroad's chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and pay the railroad directly. Notify the railroad's representative, specified in the project special provisions, in writing at least 40 business days before starting work near a track. Provide the specific time planned to start the operations.

109.6.3.3 Retainage

Delete paragraph two effective with the December 2020 letting:

450.2.1 Acronyms and Definitions

Add the following definitions to 450.2.1(2) effective with the November 2020 letting:

Butt Joint	A transverse joint between existing and newly paved surfaces, formed by milling or sawing a vertical notch into the existing surface and then paving against the notch.
Echelon Paving	Paving two or more adjacent lanes with adjacent pavers offset from each other by 200 feet or less.
Notched Wedge Joint	A longitudinal joint consisting of a wedge placed at the edge of the initially paved lane with an overlapping wedge placed on the subsequent lane.
Tandem Paving	Paving two or more adjacent lanes with adjacent pavers offset from each other by more than 200 feet.
Vertical Joint	A longitudinal joint between 2 paved lanes with a vertical or nearly vertical interface between the adjacent mats.

450.3.2.8 Jointing

Replace paragraph two with the following with the November 2020 letting:

- (2) Where placing against existing HMA pavement, saw or mill the existing mat to form a full-depth joint.

Replace paragraphs five and six with the following effective with the November 2020 letting:

- (5) At the prepave meeting, submit documentation to the engineer that includes the brand name and model of each extruding and compacting device proposed for notched wedge joint construction. Alternatively, submit pictures of fabricated wedging and compacting devices. Do not use devices before engineer approval.
- (6) For notched wedge joints, construct and shape the wedge for each layer using the engineer-approved extruding device and compacting device that will provide a uniform slope and will not restrict the main screed. Compact the wedge with a weighted roller wheel or vibratory plate compactor the same width as the wedge. Clean and apply tack coat to the wedge surface and both notches before placing the adjacent lane.
- (7) For butt and vertical joints, clean and apply tack coat to promote bonding and seal the joint.
- (8) If paving in echelon, the contractor may use a vertical or notched wedge joint. Joints paved in echelon need not be tack coated.

460.2.2.3 Aggregate Gradation Master Range

Replace table 460-1 with the following effective with the November 2020 letting:

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm)	No. 2 (25.0 mm)	No. 3 (19.0 mm)	No. 4 (12.5 mm)	No. 5 (9.5 mm)	No. 6 (4.75 mm)	SMA No. 4 (12.5 mm)	SMA No. 5 (9.5 mm)
50.0-mm	100							
37.5-mm	90 - 100	100						
25.0-mm	90 max	90 - 100	100					
19.0-mm	—	90 max	90 - 100	100			100	
12.5-mm	—	—	90 max	90 - 100	100		90 - 97	100
9.5-mm	—	—	—	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm	—	—	—	—	90 max	90 - 100	25 - 35	35 - 45
2.36-mm	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm	—	—	—	—	—	30 - 55	—	—
0.60-mm	—	—	—	—	—	—	18 max	18 max
0.075-mm	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	6.0 - 13.0	8.0 - 11.0	8.0 - 12.0
% VMA	11.0 min	12.0 min	13.0 min	14.0 min ^[1]	15.0 min ^[2]	16.0 - 17.5	16.0 min	17.0 min

^[1] 14.5 for LT and MT mixes.

^[2] 15.5 for LT and MT mixes.

532.2.1 General

Replace paragraph one with the following effective with the November 2020 letting:

- (1) Furnish structural steel conforming to ASTM as follows:

<= 1/2 inch thick structural tube and pipe ASTM A500 grade C
 > 1/2 inch thick structural tube and pipe API 5L PSL 2 grade 46 or ASTM 1085
 Tapered vertical supports ASTM A595 grade A or ASTM A572 grade 55
 Multi-sided or greater than 26-inch diameter round tapered poles ASTM A572 grade 65
 Structural angles and plates ASTM A709 grade 36

532.3.8 Acceptance and Inspection

Add the following new subsection effective with the November 2020 letting:

532.3.8 Acceptance and Inspection

- (1) Demonstrate to the engineer that electrical and mechanical systems for each high mast tower installation are fully operational. The department will not accept an installation until the engineer is satisfied that it functions properly.

- (2) Inspect completed "S" or "L" designated structures before opening to public traffic conforming to the BOS structure inspection manual part 4 for sign, signal, and high mast towers available at:

<https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/strct/inspection-manual.aspx>

Ensure that a department-certified active team leader for sign/signal inspections, listed on the department's highway structures information system (HSIS) website, performs inspections. Conform to the following:

- Notify the engineer at least 5 business days before inspection.
- Ensure that the team leader performing inspections submits the signed inspection reports and provides punch list items as maintenance items in the inspection report to the engineer within one business day after completing each inspection. Submit that signed final inspection report to the engineer and HSIS at:

<https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/strct/hsi.aspx>

- Notify the engineer and region ancillary structure project manager upon completion of the punch list items.

550.2.1 Steel Piles and Pile Shells

Replace paragraph three with the following effective with the November 2020 letting:

- (3) For steel pipe sections and steel pile shells for cast-in-place concrete piles, use ASTM A252 grade 3 steel.

614.3.2.1 Installing Posts

Replace paragraphs four and five with the following effective with the December 2020 letting:

- (4) For bid items 614.0220, 0230, and 2500; do not trim posts before installation and mark one face of each post as follows:

- Draw an embedment depth line.
- Above the embedment line, write the post length.
- Posts 3 through 8 of bid item 614.0220 do not require marking.

Install posts with the markings on the roadway side. Ensure the markings remain on the posts until guardrail final acceptance.

- (5) Ensure that posts are at least the minimum length and minimum embedment the plans show before cutting post tops to the finished elevation. After installation, the engineer may direct the contractor to remove and re-install up to 5% of the posts to verify they were placed to the required plan depth. If a post is embedded less than the required plan depth, the engineer may direct additional sampling. Re-install sampled posts at the locations and to the depths the plans show. Replace posts and other components that are damaged during sampling.
- (6) Provide offset block-mounted reflectors as the plans show.

710.2 Small Quantities

Replace paragraph one with the following effective with the November 2020 letting:

- (1) For contracts with only small quantities of material subject to testing, as defined under specific contract QMP provisions, modify the requirements of 710 as follows:
1. The contractor may submit an abbreviated quality control plan as allowed in 701.1.2.3.
 2. The engineer may accept aggregate based on documented previous testing and non-random start-up gradation testing as allowed in 710.5.6.1.

710.5.6 Aggregate Testing

Replace the entire text with the following effective with the November 2020 letting:

710.5.6.1 General

- (1) Test aggregate gradations during concrete production. The department will accept non-random start-up testing during concrete production for the following:
- Small quantities, as defined in 715.1.1.2, of class I concrete placed under 715.
 - Less than 400 cubic yards of class II ancillary concrete placed under the contract.

710.5.6.2 Gradation Testing During Concrete Production

- (1) Test aggregate gradation during concrete production batching either at a central mix batch plant or at a ready mix plant. The contractor's concrete production QC tests can be used for the same mix design on multiple contracts.
- (2) Conform to combined gradation limits submitted in the contractor's quality control plan. Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.
- (3) Contractor QC testing frequency is based on the cumulative plant production for each mix design across multiple WisDOT contracts.

TABLE 710-1 PLANT PRODUCTION QC GRADATION TESTING FREQUENCY

Daily Plant Production Rate for WisDOT Work	Minimum QC Frequency per Stockpile
250 cubic yards or less	one test per cumulative total of 250 cubic yards
more than 250 through 1000 cubic yards	one test per day
more than 1000 cubic yards	two tests per day

- (4) Department QV testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract.

TABLE 710-2 CONTRACT PLACEMENT QV GRADATION TESTING FREQUENCY

Anticipated Daily Placement Rate Each WisDOT Contract	Minimum QV Frequency per Stockpile
less than or equal to 1000 cubic yards	one test per 5 days of placement
more than 1000 cubic yards	two tests per 5 days of placement

716.2.1 Class II Concrete

Replace paragraphs four through six with the following effective with the November 2020 letting:

- (4) Provide concrete with a 28-day compressive strength that equals or exceeds the following:
- If the contract specifies f'_c , then f'_c .
 - If the contract does not specify f'_c , then 3000 psi.

ERRATA**101.3 Definitions**

Adopt AASHTO change order definition.

Change order A written order to the contractor detailing changes to the specified work quantities or modifications within the scope of the original contract..

Delete existing contract change order, contract modification, and contract revision definitions.

460.2.7(1) HMA Mixture Design

Correct table 460-2 errata by eliminating plasticity index requirements for LT, MT, and HT mixes.

TABLE 460-2 MIXTURE REQUIREMENTS

Mixture type	LT	MT	HT	SMA
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	35
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103 as modified in CMM 860.2.7) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821 as modified in CMM 860.7.2) (one face/2 face, % by count)	65/___	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40 ^[1]	43 ^[1]	45	45
Sand Equivalency (AASHTO T176, min)	40	40 ^[2]	45	50
Clay Lumps and Friable Particle in Aggregate (AASHTO T112)	<= 1%	<= 1%	<= 1%	<= 1%
Plasticity Index of Material Added to Mix Design as Mineral Filler (AASHTO T89/90)				<= 4
Gyratory Compaction				
Gyrations for Nini	6	7	8	7
Gyrations for Ndes	40	75	100	65
Gyrations for Nmax	60	115	160	100
Air Voids, %Va (%Gmm Ndes)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.5 (95.5)
% Gmm Nini	<= 91.5 ^[3]	<= 89.0 ^[3]	<= 89.0	___
% Gmm Nmax	<= 98.0	<= 98.0	<= 98.0	<= 98.0
Dust to Binder Ratio ^[4] (% passing 0.075/Pbe)	0.6 - 1.2 ^[5]	0.6 - 1.2 ^[5]	0.6 - 1.2 ^[5]	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80 ^{[6] [8]}	65 - 75 ^{[6] [7] [9]}	65 - 75 ^{[6] [7] [9]}	70 - 80
Tensile Strength Ratio (TSR) (AASHTO T283) ^{[10] [11]}				
no antistripping additive	0.75 min	0.75 min	0.75 min	0.80 min
with antistripping additive	0.80 min	0.80 min	0.80 min	0.80 min
Draindown (AASHTO T305) (%)	___	___	___	<= 0.30
Minimum Effective Asphalt Content, Pbe (%)	___	___	___	5.5

^[1] For No 6 (4.75 mm) nominal maximum size mixes, the specified fine aggregate angularity is 43 for LT and 45 MT mixes.

^[2] For No 6 (4.75 mm) nominal maximum size mixes, the specified sand equivalency is 43 for MT mixes.

^[3] The percent maximum density at initial compaction is only a guideline.

^[4] For a gradation that passes below the boundaries of the caution zone (ref. AASHTO M323), the dust to binder ratio limits are 0.6 - 1.6.

^[5] For No 6 (4.75 mm) nominal maximum size mixes, the specified dust to binder ratio limits are 1.0 - 2.0 for LT mixes and 1.5 - 2.0 for MT and HT mixes.

^[6] For No. 6 (4.75mm) nominal maximum size mixes, the specified VFB is 67 - 79 percent for LT mixes and 66 - 77 percent for MT and HT mixes.

^[7] For No. 5 (9.5mm) and No. 4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76 percent.

^[8] For No. 2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[9] For No. 1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[10] WisDOT eliminates freeze-thaw conditioning cycles from the TSR test procedure.

^[11] Run TSR at asphalt content corresponding to 3.0% air void regressed design, or 4.5% air void design for SMA, using distilled water for testing.

513.2.1(2) General

Correct errata by changing the CMM reference from 875.2 to 875.4.

- (2) Conform to the department's certification method of acceptance, as defined in CMM 875.4, for railing and railing components. Furnish a certificate of compliance for miscellaneous hardware.
-

531.1(1) Description

Correct errata by adding structural steel sign supports constructed under 635.

- (1) This section describes constructing drilled shaft foundations for the following:
- Overhead sign structures constructed under 532.
 - High mast light towers constructed under 532.
 - Structural steel sign supports constructed under 635.
 - Camera poles constructed under 677.
-

635.3.1(1) Structural Steel Sign Supports

Correct errata by adding "type NS" concrete footings.

- (1) Locate and erect the supports as specified for placement and orientation in 637.3.3.2. Construct Type NS concrete footings conforming to 531.
-

654.5(2) Payment

Correct errata by changing excavating to drilling.

- (2) Payment for the Bases bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor templates, rods, nuts, and washers; for bar steel reinforcement; and for drilling and backfilling.
-

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to paul.ndon@dot.wi.gov within 5 days of payment receipt to be logged manually.

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

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

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

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

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

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

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

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

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

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

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

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

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

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

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

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

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

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

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

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

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Non-discrimination Provisions

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

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

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

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

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

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

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

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

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

Pertinent Non-Discrimination Authorities:

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

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

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

Effective November 2020 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<https://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project certify to the engineer, in writing using department form DT4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form DT4567 is available at:

<https://wisconsindot.gov/Documents/formdocs/dt4567.docx>

Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) *Agreement Clauses*. "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) *Contractor and Subcontractor Clauses*. "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT**

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS
FOR PROJECTS WITH FEDERAL AID**

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work."
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

<https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf>

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx>

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

- a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

"General Decision Number: WI20200010 10/02/2020

Superseded General Decision Number: WI20190010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	01/24/2020
2	02/28/2020
3	03/06/2020
4	06/05/2020
5	06/12/2020
6	06/19/2020
7	07/17/2020
8	08/28/2020

9	09/11/2020
10	09/18/2020
11	10/02/2020

BRWI0001-002 06/03/2019

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPPEALEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.80	24.28

BRWI0002-002 06/01/2019

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.94	23.30

BRWI0002-005 06/01/2019

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.51	23.37

BRWI0003-002 06/03/2019

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.18	23.90

BRWI0004-002 06/01/2019

KENOSHA, RACINE, AND WALWORTH COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 38.43	25.10
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BRWI0006-002 06/01/2019

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 35.06	23.02
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BRWI0007-002 06/03/2019

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 35.57	24.22
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BRWI0008-002 06/01/2019

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 38.93	24.22
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BRWI0011-002 06/03/2019

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 34.18	23.90
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BRWI0019-002 06/03/2019

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
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BRICKLAYER.....	\$ 33.40	24.68
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BRWI0034-002 06/03/2019

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.56	24.23

 CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

 CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

 CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON
COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 06/14/2020

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 35.98	20.98

ELEC0014-007 07/05/2020

REMAINING COUNTIES

Rates	Fringes
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Teledata System Installer

Installer/Technician.....\$ 27.75	15.14
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Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2020

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....\$ 41.62		30%+12.70

* ELEC0158-002 06/01/2020

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.....\$ 34.77		29.75%+10.26

ELEC0159-003 08/02/2020

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN.....\$ 41.86		22.67

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern,

Florence and Homestead) AND MARINETTE COUNTY (Township of
Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 33.94	21.80
Electrical contracts under \$180,000.....	\$ 31.75	21.73

* ELEC0242-005 05/31/2020

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 39.77	28.11

ELEC0388-002 06/01/2020

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman,
Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON,
MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area
West of a line 6 miles West of the West boundary of Oconto
County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS
AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.85	26%+11.20

ELEC0430-002 06/01/2020

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 41.86	22.66

ELEC0494-005 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 42.84	25.54

ELEC0494-006 06/01/2020

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 36.32	22.51

ELEC0494-013 06/07/2020

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 21.46	18.52
Technician.....	\$ 31.34	20.00

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2019

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.15	28.50%+10.00

ELEC0890-003 06/01/2020

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,
RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.41	25.95%+11.11

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 47.53	21.43
(2) Heavy Equipment Operator.....	\$ 42.78	19.80
(3) Equipment Operator.....	\$ 38.02	18.40
(4) Heavy Groundman Driver..	\$ 33.27	16.88
(5) Light Groundman Driver..	\$ 30.89	16.11
(6) Groundsman.....	\$ 26.14	14.60

ENGI0139-005 06/01/2020

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 41.62	23.80
Group 2.....	\$ 41.12	23.80
Group 3.....	\$ 40.62	23.80
Group 4.....	\$ 40.36	23.80
Group 5.....	\$ 40.07	23.80
Group 6.....	\$ 34.17	23.80

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - \$3.00 per hour
EPA Level ""B"" protection - \$2.00 per hour
EPA Level ""C"" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without

attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling

machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2020

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO
COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 37.31	27.62

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2020

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 39.11	27.87

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2020

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST,
GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,
JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON,
MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern
area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA,
WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.10	27.06

IRON0498-005 06/01/2019

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 40.25	40.53

IRON0512-008 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.60	29.40

IRON0512-021 06/03/2019

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	29.40

LAB00113-002 06/01/2020

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 30.05	22.26
Group 2.....	\$ 30.20	22.26
Group 3.....	\$ 30.40	22.26
Group 4.....	\$ 30.55	22.26
Group 5.....	\$ 30.70	22.26
Group 6.....	\$ 26.54	22.26

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;

Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint 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 06/01/2020

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 29.30	22.26
Group 2.....	\$ 29.40	22.26
Group 3.....	\$ 29.45	22.26
Group 4.....	\$ 29.65	22.26
Group 5.....	\$ 29.50	22.26
Group 6.....	\$ 26.39	22.26

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint 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 06/01/2020

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 29.11	22.26
Group 2.....	\$ 29.26	22.26
Group 3.....	\$ 29.46	22.26
Group 4.....	\$ 29.43	22.26
Group 5.....	\$ 29.76	22.26
Group 6.....	\$ 26.25	22.26

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint 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 06/01/2020

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT,

CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,
DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA,
JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE,
OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE,
RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST.
CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN,
WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 33.72	17.95
Group 2.....	\$ 33.82	17.95
Group 3.....	\$ 33.87	17.95
Group 4.....	\$ 34.07	17.95
Group 5.....	\$ 33.92	17.95
Group 6.....	\$ 30.35	17.95

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; 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 06/01/2020

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 34.00	17.95
Group 2.....	\$ 34.10	17.95
Group 3.....	\$ 34.15	17.95
Group 4.....	\$ 34.35	17.95
Group 5.....	\$ 34.20	17.95
Group 6.....	\$ 30.35	17.95

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2019

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 36.08	20.36
Spray & Sandblast.....	\$ 37.08	20.36

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2019

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 33.30	23.86
Brush.....	\$ 32.95	23.86
Spray & Sandblast.....	\$ 33.70	23.86

PAIN0802-002 06/01/2019

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 30.93	18.44

PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per hour.

PAIN0802-003 06/01/2019

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 30.93	18.58

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/02/2019

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 25.76	13.33

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2020

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 31.07	22.94
3 or more Axles; Euclids, Dumpton & Articulated, Truck Mechanic.....	\$ 31.22	22.94

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on

- a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

"General Decision Number: WI20200008 10/02/2020

Superseded General Decision Number: WI20190008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	01/24/2020
2	02/28/2020
3	03/06/2020
4	06/05/2020
5	06/12/2020
6	06/19/2020
7	07/17/2020
8	07/24/2020
9	08/28/2020

10	09/11/2020
11	09/18/2020
12	10/02/2020

BRWI0001-002 06/03/2019

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPPEALEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.80	24.28

BRWI0002-002 06/01/2019

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.94	23.30

BRWI0002-005 06/01/2019

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.51	23.37

BRWI0003-002 06/03/2019

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.18	23.90

BRWI0004-002 06/01/2019

KENOSHA, RACINE, AND WALWORTH COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 38.43	25.10
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BRWI0006-002 06/01/2019

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.06	23.02

BRWI0007-002 06/03/2019

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.57	24.22

BRWI0008-002 06/01/2019

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.93	24.22

BRWI0009-001 06/03/2019

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.18	23.90

BRWI0011-002 06/03/2019

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.18	23.90

BRWI0013-002 06/03/2019

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.56	24.23

BRWI0019-002 06/03/2019

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.40	24.68

BRWI0021-002 06/03/2019

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.75	24.02

BRWI0034-002 06/03/2019

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.56	24.23

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
area bordering Michigan State Line), FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,

MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016		

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016		

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018		

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016		

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

 CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 33.58	21.53
Zone B.....	\$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

 ELEC0014-002 06/14/2020

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
 (except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
 Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
 CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
 CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
 COUNTIES

	Rates	Fringes
Electricians:.....	\$ 35.98	20.98

 ELEC0127-002 06/01/2020

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.62	30%+12.70

 * ELEC0158-002 06/01/2020

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
 MARINETTE(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.....	\$ 34.77	29.75%+10.26

ELEC0159-003 08/02/2020

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 41.86	22.67

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 33.94	21.80
Electrical contracts under \$180,000.....	\$ 31.75	21.73

* ELEC0242-005 05/31/2020

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 39.77	28.11

ELEC0388-002 06/01/2020

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS

AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.85	26%+11.20

ELEC0430-002 06/01/2020		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 41.86	22.66

ELEC0494-005 06/01/2020		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 42.84	25.54

ELEC0494-006 06/01/2020		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 36.32	22.51

ELEC0577-003 06/01/2019		

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.15	28.50%+10.00

ELEC0890-003 06/01/2020		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,

RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 37.41	25.95%+11.11

ENGI0139-003 06/01/2020

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 42.92	23.15
Group 2.....	\$ 41.67	23.15
Group 3.....	\$ 39.97	23.15
Group 4.....	\$ 39.44	23.15
Group 5.....	\$ 37.37	23.15
Group 6.....	\$ 35.84	23.15

HAZARDOUS WASTE PREMIUMS:

EPA Level ""A"" Protection: \$3.00 per hour

EPA Level ""B"" Protection: \$2.00 per hour

EPA Level ""C"" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator;

Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

ENGI0139-007 06/01/2020

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 41.64	23.25

Group 2.....	\$ 40.86	23.25
Group 3.....	\$ 39.91	23.25
Group 4.....	\$ 38.86	23.25
Group 5.....	\$ 37.46	23.25

HAZARDOUS WASTE PREMIUMS:

EPA Level ""A"" Protection: \$3.00 per hour

EPA Level ""B"" Protection: \$2.00 per hour

EPA Level ""C"" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and/or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (14S or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket); Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame and Winch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress Machines; Skid Steer Loader with or without attachments; Boiler operators (temporary heat); Forklift, 12 ft and under; Screed Operator Milling Machine; Refrigeration Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound Driver and Extractor; Generators under 150 KW; Combination small equipment operator; Compressors under 400 CFM; Welding Machines; Heaters, Mechanical; Pumps; Winches, Small Electric; Oiler and Greaser; Conveyor; High pressure utility locating machine (daylighting machine).

IRON0008-002 06/01/2020

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 37.31	27.62

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2020

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 39.11	27.87

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2020

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST,
GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,
JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON,
MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern
area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA,
WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.10	27.06

IRON0498-005 06/01/2019		

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 40.25	40.53

IRON0512-008 06/03/2019		

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.60	29.40

IRON0512-021 06/03/2019		

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	29.40

LAB00113-004 06/01/2020		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

Rates	Fringes
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Laborers: (Open Cut)		
Group 1.....	\$ 16.38	21.08
Group 2.....	\$ 18.65	21.08
Group 3.....	\$ 22.19	21.08
Group 4.....	\$ 31.56	21.08
Group 5.....	\$ 31.70	21.08
Group 6.....	\$ 31.76	21.08
Group 7.....	\$ 34.77	21.08
Group 8.....	\$ 37.59	21.08
Group 9.....	\$ 38.23	21.08

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc;
Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner;
Pipe Layer; Rock Driller and Joint Man; Timber Man and
Concrete Brusher; Bracer in Trench Behind Machine & Tight
Sheeting; Concrete Formsetter and Shoveler; Jackhammer
Operator

GROUP 9: Blaster

LAB00113-005 06/01/2020

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 23.05	21.08
Group 2.....	\$ 28.98	21.08
Group 3.....	\$ 32.34	21.08

Group 4.....\$ 34.11 21.08

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawyer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LAB00113-008 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 22.19	21.08
Group 2.....	\$ 31.70	21.08
Group 3.....	\$ 31.76	21.08
Group 4.....	\$ 34.77	21.08
Group 5.....	\$ 34.91	21.08
Group 6.....	\$ 37.59	21.08
Group 7.....	\$ 38.23	21.08

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner;
Mining Machine; Welder; Rock Driller; Concrete Buster; Jack
Hammer Operator; Caisson Worker; Pipelayer and Joint Man;
Bracerman

GROUP 7: Blaster

* LAB00113-009 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 22.19	21.08
Group 2.....	\$ 31.70	21.08
Group 3.....	\$ 35.31	21.08
Group 4.....	\$ 36.11	21.08
Group 5.....	\$ 36.23	21.08
Group 6.....	\$ 38.93	21.08
Group 7.....	\$ 39.55	21.08

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add \$2.00 to all classifications
*Compressed Air over 30 lbs add \$3.00 to all classifications

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder &
Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack
Hammer Operator; Caisson Worker; Pipelayer and Joint Man;
Bracerman; Nozzle Man on Gunite; Timber Man; Concrete
Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add \$0.15 per hour.

LAB00140-005 06/01/2020

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE,
FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA,
JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK,
PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER,
SHAWANO, SHEBOYGAN, TAYLOR, TREMMPEALEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1.....	\$ 29.33	17.88
Group 2.....	\$ 31.18	17.88
Group 3.....	\$ 31.48	17.88
Group 4.....	\$ 32.13	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00,
15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form
Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB00464-002 06/01/2020

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 29.23	17.88
Group 2.....	\$ 31.43	17.88
Group 3.....	\$ 31.63	17.88
Group 4.....	\$ 32.38	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add \$1.00, 15- 30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawyer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB01091-010 06/01/2020

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 29.02	17.88
Group 2.....	\$ 31.08	17.88
Group 3.....	\$ 31.28	17.88
Group 4.....	\$ 32.03	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper;
Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK

COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2020

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 31.07	22.94
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	\$ 31.22	22.94

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an

interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

August 2018

NOTICE TO BIDDERS WAGE RATE DECISION

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



Proposal Schedule of Items

Page 1 of 21

Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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	201.0105 Clearing	160.000 STA	_____.	_____.
0004	201.0120 Clearing	64.000 ID	_____.	_____.
0006	201.0205 Grubbing	162.000 STA	_____.	_____.
0008	201.0220 Grubbing	64.000 ID	_____.	_____.
0010	203.0100 Removing Small Pipe Culverts	42.000 EACH	_____.	_____.
0012	204.0100 Removing Concrete Pavement	1,099.000 SY	_____.	_____.
0014	204.0130 Removing Curb	294.000 LF	_____.	_____.
0016	204.0150 Removing Curb & Gutter	2,110.000 LF	_____.	_____.
0018	204.0155 Removing Concrete Sidewalk	331.000 SY	_____.	_____.
0020	204.0170 Removing Fence	315.000 LF	_____.	_____.
0022	204.0185 Removing Masonry	27.000 CY	_____.	_____.
0024	204.0195 Removing Concrete Bases	9.000 EACH	_____.	_____.
0026	204.0210 Removing Manholes	9.000 EACH	_____.	_____.
0028	204.0220 Removing Inlets	46.000 EACH	_____.	_____.
0030	204.0245 Removing Storm Sewer (size) 01. 6-Inch	181.000 LF	_____.	_____.
0032	204.0245 Removing Storm Sewer (size) 02. 8-Inch	49.000 LF	_____.	_____.



Proposal Schedule of Items

Page 2 of 21

Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0034	204.0245 Removing Storm Sewer (size) 03. 12-Inch	1,300.000 LF	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 04. 15-Inch	581.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 05. 18-Inch	986.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 06. 21-Inch	783.000 LF	_____.	_____.
0042	204.0245 Removing Storm Sewer (size) 07. 24-Inch	434.000 LF	_____.	_____.
0044	204.0245 Removing Storm Sewer (size) 08. 27-Inch	311.000 LF	_____.	_____.
0046	204.0245 Removing Storm Sewer (size) 09. 30-Inch	701.000 LF	_____.	_____.
0048	204.0245 Removing Storm Sewer (size) 10. 36-Inch	88.000 LF	_____.	_____.
0050	204.0245 Removing Storm Sewer (size) 11. 54-Inch	531.000 LF	_____.	_____.
0052	204.0291.S Abandoning Sewer	86.000 CY	_____.	_____.
0054	204.9060.S Removing (item description) 01. Flag Pole	1.000 EACH	_____.	_____.
0056	204.9060.S Removing (item description) 02. Private Light	8.000 EACH	_____.	_____.
0058	205.0100 Excavation Common	103,665.000 CY	_____.	_____.
0060	205.0400 Excavation Marsh	93,659.000 CY	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0062	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	263.500 TON	_____.	_____.
0064	206.2000 Excavation for Structures Culverts (structure) 01. B-67-380	LS	LUMP SUM	_____.
0066	208.1100 Select Borrow	140,489.000 CY	_____.	_____.
0068	210.2500 Backfill Structure Type B	2,405.000 TON	_____.	_____.
0070	213.0100 Finishing Roadway (project) 01. 2783-05-70	1.000 EACH	_____.	_____.
0072	305.0110 Base Aggregate Dense 3/4-Inch	3,359.000 TON	_____.	_____.
0074	305.0120 Base Aggregate Dense 1 1/4-Inch	75,187.000 TON	_____.	_____.
0076	311.0110 Breaker Run	436.000 TON	_____.	_____.
0078	312.0110 Select Crushed Material	75,254.000 TON	_____.	_____.
0080	371.2000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction	84.000 EACH	_____.	_____.
0082	416.0170 Concrete Driveway 7-Inch	2,595.000 SY	_____.	_____.
0084	416.0610 Drilled Tie Bars	61.000 EACH	_____.	_____.
0086	450.4000 HMA Cold Weather Paving	2,396.000 TON	_____.	_____.
0088	455.0605 Tack Coat	5,076.000 GAL	_____.	_____.
0090	460.2000 Incentive Density HMA Pavement	15,260.000 DOL	1.00000	15,260.00
0092	460.5223 HMA Pavement 3 LT 58-28 S	15,100.000 TON	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0094	460.5224 HMA Pavement 4 LT 58-28 S	8,730.000 TON	_____.	_____.
0096	465.0105 Asphaltic Surface	16.000 TON	_____.	_____.
0098	465.0120 Asphaltic Surface Driveways and Field Entrances	585.000 TON	_____.	_____.
0100	465.0125 Asphaltic Surface Temporary	50.000 TON	_____.	_____.
0102	465.0315 Asphaltic Flumes	52.000 SY	_____.	_____.
0104	504.0100 Concrete Masonry Culverts	389.000 CY	_____.	_____.
0106	504.0900 Concrete Masonry Endwalls	31.000 CY	_____.	_____.
0108	505.0400 Bar Steel Reinforcement HS Structures	43,440.000 LB	_____.	_____.
0110	505.0600 Bar Steel Reinforcement HS Coated Structures	2,160.000 LB	_____.	_____.
0112	511.1200 Temporary Shoring (structure) 01. B-67-380	322.000 SF	_____.	_____.
0114	516.0500 Rubberized Membrane Waterproofing	39.000 SY	_____.	_____.
0116	520.2048 Culvert Pipe Temporary 48-Inch	473.000 LF	_____.	_____.
0118	520.8000 Concrete Collars for Pipe	4.000 EACH	_____.	_____.
0120	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	6.000 EACH	_____.	_____.
0122	521.3112 Culvert Pipe Corrugated Steel 12-Inch	63.000 LF	_____.	_____.
0124	521.3160 Culvert Pipe Corrugated Steel 60-Inch	88.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0126	522.0442 Culvert Pipe Reinforced Concrete Class IV 42-Inch	109.000 LF	_____.	_____.
0128	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	3.000 EACH	_____.	_____.
0130	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	11.000 EACH	_____.	_____.
0132	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	1.000 EACH	_____.	_____.
0134	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	1.000 EACH	_____.	_____.
0136	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	4.000 EACH	_____.	_____.
0138	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	1.000 EACH	_____.	_____.
0140	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	2.000 EACH	_____.	_____.
0142	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	1.000 EACH	_____.	_____.
0144	522.1060 Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	1.000 EACH	_____.	_____.
0146	522.2614 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	1.000 EACH	_____.	_____.
0148	522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	1.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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	522.2624 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	2.000 EACH	_____.	_____.
0152	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	1.000 EACH	_____.	_____.
0154	522.2634 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	1.000 EACH	_____.	_____.
0156	601.0110 Concrete Curb Type D	190.000 LF	_____.	_____.
0158	601.0407 Concrete Curb & Gutter 18-Inch Type D	157.000 LF	_____.	_____.
0160	601.0411 Concrete Curb & Gutter 30-Inch Type D	38,755.000 LF	_____.	_____.
0162	601.0600 Concrete Curb Pedestrian	261.000 LF	_____.	_____.
0164	602.0410 Concrete Sidewalk 5-Inch	117,944.000 SF	_____.	_____.
0166	602.0505 Curb Ramp Detectable Warning Field Yellow	546.000 SF	_____.	_____.
0168	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	485.000 SF	_____.	_____.
0170	603.8000 Concrete Barrier Temporary Precast Delivered	237.500 LF	_____.	_____.
0172	603.8125 Concrete Barrier Temporary Precast Installed	475.000 LF	_____.	_____.
0174	606.0200 Riprap Medium	415.000 CY	_____.	_____.
0176	606.0300 Riprap Heavy	125.000 CY	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0178	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	818.000 LF	_____.	_____.
0180	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	4,817.000 LF	_____.	_____.
0182	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	533.000 LF	_____.	_____.
0184	608.0421 Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	33.000 LF	_____.	_____.
0186	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	2,263.000 LF	_____.	_____.
0188	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	1,470.000 LF	_____.	_____.
0190	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	700.000 LF	_____.	_____.
0192	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	191.000 LF	_____.	_____.
0194	608.0460 Storm Sewer Pipe Reinforced Concrete Class IV 60-Inch	550.000 LF	_____.	_____.
0196	608.0512 Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	172.000 LF	_____.	_____.
0198	608.2414 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	259.000 LF	_____.	_____.
0200	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	15.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0202	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	697.000 LF	_____.	_____.
0204	608.2429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	553.000 LF	_____.	_____.
0206	608.2434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	573.000 LF	_____.	_____.
0208	611.0420 Reconstructing Manholes	1.000 EACH	_____.	_____.
0210	611.0535 Manhole Covers Type J-Special	47.000 EACH	_____.	_____.
0212	611.0624 Inlet Covers Type H	218.000 EACH	_____.	_____.
0214	611.0645 Inlet Covers Type MS-A	34.000 EACH	_____.	_____.
0216	611.1004 Catch Basins 4-FT Diameter	91.000 EACH	_____.	_____.
0218	611.1005 Catch Basins 5-FT Diameter	8.000 EACH	_____.	_____.
0220	611.1006 Catch Basins 6-FT Diameter	8.000 EACH	_____.	_____.
0222	611.1230 Catch Basins 2x3-FT	94.000 EACH	_____.	_____.
0224	611.2004 Manholes 4-FT Diameter	9.000 EACH	_____.	_____.
0226	611.2005 Manholes 5-FT Diameter	19.000 EACH	_____.	_____.
0228	611.2006 Manholes 6-FT Diameter	12.000 EACH	_____.	_____.
0230	611.2008 Manholes 8-FT Diameter	6.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

Federal ID(s): WISC 2021034, 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
0232	611.3004 Inlets 4-FT Diameter	4.000 EACH	_____.	_____.
0234	611.3230 Inlets 2x3-FT	8.000 EACH	_____.	_____.
0236	611.3901 Inlets Median 1 Grate	34.000 EACH	_____.	_____.
0238	611.8115 Adjusting Inlet Covers	4.000 EACH	_____.	_____.
0240	611.8120.S Cover Plates Temporary	2.000 EACH	_____.	_____.
0242	612.0204 Pipe Underdrain Unperforated 4-Inch	940.000 LF	_____.	_____.
0244	612.0406 Pipe Underdrain Wrapped 6-Inch	1,120.000 LF	_____.	_____.
0246	612.0700 Drain Tile Exploration	760.000 LF	_____.	_____.
0248	612.0804 Apron Endwalls for Underdrain Reinforced Concrete 4-Inch	1.000 EACH	_____.	_____.
0250	619.1000 Mobilization	1.000 EACH	_____.	_____.
0252	620.0300 Concrete Median Sloped Nose	1,474.000 SF	_____.	_____.
0254	624.0100 Water	1,702.000 MGAL	_____.	_____.
0256	625.0100 Topsoil	67,650.000 SY	_____.	_____.
0258	627.0200 Mulching	119,260.000 SY	_____.	_____.
0260	628.1104 Erosion Bales	385.000 EACH	_____.	_____.
0262	628.1504 Silt Fence	7,200.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0264	628.1520 Silt Fence Maintenance	12,135.000 LF	_____.	_____.
0266	628.1905 Mobilizations Erosion Control	10.000 EACH	_____.	_____.
0268	628.1910 Mobilizations Emergency Erosion Control	10.000 EACH	_____.	_____.
0270	628.2008 Erosion Mat Urban Class I Type B	28,840.000 SY	_____.	_____.
0272	628.2033 Erosion Mat Class III Type B	1,590.000 SY	_____.	_____.
0274	628.6510 Soil Stabilizer Type B	14.000 ACRE	_____.	_____.
0276	628.7005 Inlet Protection Type A	319.000 EACH	_____.	_____.
0278	628.7010 Inlet Protection Type B	50.000 EACH	_____.	_____.
0280	628.7015 Inlet Protection Type C	219.000 EACH	_____.	_____.
0282	628.7020 Inlet Protection Type D	84.000 EACH	_____.	_____.
0284	628.7504 Temporary Ditch Checks	419.000 LF	_____.	_____.
0286	628.7555 Culvert Pipe Checks	42.000 EACH	_____.	_____.
0288	628.7560 Tracking Pads	11.000 EACH	_____.	_____.
0290	628.7570 Rock Bags	915.000 EACH	_____.	_____.
0292	629.0210 Fertilizer Type B	145.000 CWT	_____.	_____.
0294	630.0140 Seeding Mixture No. 40	385.000 LB	_____.	_____.
0296	630.0170 Seeding Mixture No. 70	37.000 LB	_____.	_____.



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Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0298	630.0200 Seeding Temporary	1,248.000 LB	_____.	_____.
0300	630.0300 Seeding Borrow Pit	2,640.000 LB	_____.	_____.
0302	630.0500 Seed Water	1,531.000 MGAL	_____.	_____.
0304	631.0300 Sod Water	1,087.000 MGAL	_____.	_____.
0306	631.1000 Sod Lawn	42,100.000 SY	_____.	_____.
0308	633.5200 Markers Culvert End	14.000 EACH	_____.	_____.
0310	634.0614 Posts Wood 4x6-Inch X 14-FT	1.000 EACH	_____.	_____.
0312	634.0616 Posts Wood 4x6-Inch X 16-FT	2.000 EACH	_____.	_____.
0314	634.0618 Posts Wood 4x6-Inch X 18-FT	1.000 EACH	_____.	_____.
0316	634.0811 Posts Tubular Steel 2x2-Inch X 11-FT	86.000 EACH	_____.	_____.
0318	634.0812 Posts Tubular Steel 2x2-Inch X 12-FT	28.000 EACH	_____.	_____.
0320	637.2210 Signs Type II Reflective H	509.810 SF	_____.	_____.
0322	637.2215 Signs Type II Reflective H Folding	22.380 SF	_____.	_____.
0324	637.2230 Signs Type II Reflective F	288.810 SF	_____.	_____.
0326	638.2602 Removing Signs Type II	118.000 EACH	_____.	_____.
0328	638.3000 Removing Small Sign Supports	68.000 EACH	_____.	_____.
0330	640.1303.S Pond Liner Clay	3,318.000 CY	_____.	_____.



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Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0332	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0334	643.0300 Traffic Control Drums	102,872.000 DAY	_____.	_____.
0336	643.0410 Traffic Control Barricades Type II	2,339.000 DAY	_____.	_____.
0338	643.0420 Traffic Control Barricades Type III	35,709.000 DAY	_____.	_____.
0340	643.0500 Traffic Control Flexible Tubular Marker Posts	154.000 EACH	_____.	_____.
0342	643.0600 Traffic Control Flexible Tubular Marker Bases	154.000 EACH	_____.	_____.
0344	643.0705 Traffic Control Warning Lights Type A	67,991.000 DAY	_____.	_____.
0346	643.0715 Traffic Control Warning Lights Type C	8,850.000 DAY	_____.	_____.
0348	643.0900 Traffic Control Signs	46,207.000 DAY	_____.	_____.
0350	643.0920 Traffic Control Covering Signs Type II	40.000 EACH	_____.	_____.
0352	643.1000 Traffic Control Signs Fixed Message	604.000 SF	_____.	_____.
0354	643.1050 Traffic Control Signs PCMS	20.000 DAY	_____.	_____.
0356	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0358	645.0105 Geotextile Type C	582.000 SY	_____.	_____.
0360	645.0120 Geotextile Type HR	3,970.000 SY	_____.	_____.
0362	645.0220 Geogrid Type SR	3,100.000 SY	_____.	_____.



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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0364	646.1020 Marking Line Epoxy 4-Inch	1,766.000 LF	_____.	_____.
0366	646.3020 Marking Line Epoxy 8-Inch	1,025.000 LF	_____.	_____.
0368	646.5020 Marking Arrow Epoxy	54.000 EACH	_____.	_____.
0370	646.5120 Marking Word Epoxy	6.000 EACH	_____.	_____.
0372	646.5320 Marking Railroad Crossings Epoxy	8.000 EACH	_____.	_____.
0374	646.6120 Marking Stop Line Epoxy 18-Inch	350.000 LF	_____.	_____.
0376	646.6464 Cold Weather Marking Epoxy 4-Inch	5,293.000 LF	_____.	_____.
0378	646.6468 Cold Weather Marking Epoxy 8-Inch	3,063.000 LF	_____.	_____.
0380	646.7120 Marking Diagonal Epoxy 12-Inch	77.000 LF	_____.	_____.
0382	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	3,067.000 LF	_____.	_____.
0384	646.8120 Marking Curb Epoxy	573.000 LF	_____.	_____.
0386	646.8220 Marking Island Nose Epoxy	25.000 EACH	_____.	_____.
0388	646.9010 Marking Removal Line Water Blasting 4-Inch	44.000 LF	_____.	_____.
0390	649.0150 Temporary Marking Line Removable Tape 4-Inch	28,452.000 LF	_____.	_____.
0392	649.0250 Temporary Marking Line Removable Tape 8-Inch	193.000 LF	_____.	_____.



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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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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	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	43.000 LF	_____.	_____.
0396	650.4000 Construction Staking Storm Sewer	331.000 EACH	_____.	_____.
0398	650.4500 Construction Staking Subgrade	21,101.000 LF	_____.	_____.
0400	650.5000 Construction Staking Base	21,101.000 LF	_____.	_____.
0402	650.5500 Construction Staking Curb Gutter and Curb & Gutter	39,363.000 LF	_____.	_____.
0404	650.6000 Construction Staking Pipe Culverts	13.000 EACH	_____.	_____.
0406	650.6500 Construction Staking Structure Layout (structure) 01. B-67-380	LS	LUMP SUM	_____.
0408	650.9000 Construction Staking Curb Ramps	59.000 EACH	_____.	_____.
0410	650.9910 Construction Staking Supplemental Control (project) 01. 2783-05-70	LS	LUMP SUM	_____.
0412	650.9920 Construction Staking Slope Stakes	21,101.000 LF	_____.	_____.
0414	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	170.000 LF	_____.	_____.
0416	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,177.000 LF	_____.	_____.
0418	653.0140 Pull Boxes Steel 24x42-Inch	10.000 EACH	_____.	_____.
0420	654.0101 Concrete Bases Type 1	6.000 EACH	_____.	_____.
0422	654.0102 Concrete Bases Type 2	3.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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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	654.0105 Concrete Bases Type 5	1.000 EACH	_____.	_____.
0426	654.0110 Concrete Bases Type 10	2.000 EACH	_____.	_____.
0428	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.	_____.
0430	655.0230 Cable Traffic Signal 5-14 AWG	382.000 LF	_____.	_____.
0432	655.0240 Cable Traffic Signal 7-14 AWG	1,137.000 LF	_____.	_____.
0434	655.0260 Cable Traffic Signal 12-14 AWG	1,306.000 LF	_____.	_____.
0436	655.0320 Cable Type UF 2-10 AWG Grounded	677.000 LF	_____.	_____.
0438	655.0515 Electrical Wire Traffic Signals 10 AWG	1,458.000 LF	_____.	_____.
0440	655.0610 Electrical Wire Lighting 12 AWG	702.000 LF	_____.	_____.
0442	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. Calhoun Rd & Burleigh Pl	LS	LUMP SUM	_____.
0444	657.0100 Pedestal Bases	6.000 EACH	_____.	_____.
0446	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	4.000 EACH	_____.	_____.
0448	657.0310 Poles Type 3	3.000 EACH	_____.	_____.
0450	657.0322 Poles Type 5-Aluminum	1.000 EACH	_____.	_____.
0452	657.0345 Poles Type 9	2.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0454	657.0420 Traffic Signal Standards Aluminum 13-FT	4.000 EACH	_____.	_____.
0456	657.0430 Traffic Signal Standards Aluminum 10-FT	2.000 EACH	_____.	_____.
0458	657.0530 Monotube Arms 30-FT	2.000 EACH	_____.	_____.
0460	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	5.000 EACH	_____.	_____.
0462	657.0610 Luminaire Arms Single Member 4 1/2- Inch Clamp 6-FT	1.000 EACH	_____.	_____.
0464	658.0173 Traffic Signal Face 3S 12-Inch	9.000 EACH	_____.	_____.
0466	658.0174 Traffic Signal Face 4S 12-Inch	2.000 EACH	_____.	_____.
0468	658.0416 Pedestrian Signal Face 16-Inch	6.000 EACH	_____.	_____.
0470	658.0500 Pedestrian Push Buttons	6.000 EACH	_____.	_____.
0472	658.5069 Signal Mounting Hardware (location) 01. Calhoun Rd & Burleigh Pl	LS	LUMP SUM	_____.
0474	659.1125 Luminaires Utility LED C	5.000 EACH	_____.	_____.
0476	690.0150 Sawing Asphalt	1,657.000 LF	_____.	_____.
0478	690.0250 Sawing Concrete	324.000 LF	_____.	_____.
0480	715.0502 Incentive Strength Concrete Structures	2,334.000 DOL	1.00000	2,334.00
0482	740.0440 Incentive IRI Ride	14,810.000 DOL	1.00000	14,810.00
0484	801.0117 Railroad Flagging Reimbursement	28,000.000 DOL	1.00000	28,000.00



Proposal Schedule of Items

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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0486	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	1,400.000 HRS	5.00000	7,000.00
0488	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	17,280.000 HRS	5.00000	86,400.00
0490	SPV.0035 Special 01. Stream Bed Medium	201.000 CY	_____.	_____.
0492	SPV.0035 Special 02. Riprap Medium with Field Stone Veneer	350.000 CY	_____.	_____.
0494	SPV.0035 Special 03. Riprap Heavy with Field Stone Veneer	215.000 CY	_____.	_____.
0496	SPV.0060 Special 01. Concrete Cutoff Wall	1.000 EACH	_____.	_____.
0498	SPV.0060 Special 02. Catch Basins 8-FT Diameter	5.000 EACH	_____.	_____.
0500	SPV.0060 Special 03. Pond Outlet Control Structure 7-FT Diameter	2.000 EACH	_____.	_____.
0502	SPV.0060 Special 04. Pond Outlet Control Structure 8-FT Diameter	1.000 EACH	_____.	_____.
0504	SPV.0060 Special 05. Clay Anti-Seep Collar	4.000 EACH	_____.	_____.
0506	SPV.0060 Special 06. Construction Staking Pond Layout	3.000 EACH	_____.	_____.
0508	SPV.0060 Special 07. Traffic Signal Controller and Cabinet	1.000 EACH	_____.	_____.
0510	SPV.0060 Special 08. Remove Water Valve Extension	2.000 EACH	_____.	_____.
0512	SPV.0060 Special 09. Replace Water Valve Box	5.000 EACH	_____.	_____.



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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0514	SPV.0060 Special 10. 6-Inch Gate Valve and Box	1.000 EACH	_____.	_____.
0516	SPV.0060 Special 11. 12-Inch Gate Valve and Box	1.000 EACH	_____.	_____.
0518	SPV.0060 Special 12. 16-Inch Butterfly Valve and Box	1.000 EACH	_____.	_____.
0520	SPV.0060 Special 14. 6-Inch Water Main Offset	4.000 EACH	_____.	_____.
0522	SPV.0060 Special 15. 8-Inch Water Main Offset	1.000 EACH	_____.	_____.
0524	SPV.0060 Special 16. 12-Inch Water Main Offset	5.000 EACH	_____.	_____.
0526	SPV.0060 Special 17. 12-Inch Water Main Offset with 24-Inch Steel Casing	1.000 EACH	_____.	_____.
0528	SPV.0060 Special 18. 16-Inch Water Main Offset	10.000 EACH	_____.	_____.
0530	SPV.0060 Special 19. Adjust Hydrant	2.000 EACH	_____.	_____.
0532	SPV.0060 Special 20. Extend Hydrant	8.000 EACH	_____.	_____.
0534	SPV.0060 Special 21. Relocate Hydrant	13.000 EACH	_____.	_____.
0536	SPV.0060 Special 22. Hydrant Assembly	3.000 EACH	_____.	_____.
0538	SPV.0060 Special 23. Adjust Water Valve Box	33.000 EACH	_____.	_____.
0540	SPV.0060 Special 24. Adjust Curb Stop Box	49.000 EACH	_____.	_____.
0542	SPV.0060 Special 25. Meter Box Cover	6.000 EACH	_____.	_____.
0544	SPV.0060 Special 26. Adjust Sanitary Sewer Manhole	16.000 EACH	_____.	_____.



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Proposal ID: 20201208016 Project(s): 2783-05-70, 2783-05-71

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SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0546	SPV.0060 Special 27. Reconstruct Sanitary Sewer Manhole	16.000 EACH	_____.	_____.
0548	SPV.0060 Special 28. Sanitary Sewer Manhole Frame and Casting	6.000 EACH	_____.	_____.
0550	SPV.0060 Special 29. Sanitary Sewer Manhole Seal	40.000 EACH	_____.	_____.
0552	SPV.0060 Special 30. Utility Line Opening	12.000 EACH	_____.	_____.
0554	SPV.0060 Special 31. Temporary Marking Railroad Crossing Removable Tape	2.000 EACH	_____.	_____.
0556	SPV.0060 Special 32. Section Corner Monuments	3.000 EACH	_____.	_____.
0558	SPV.0060 Special 33. Remove, Temporary Relocate, and Permanent Relocate Mailbox	48.000 EACH	_____.	_____.
0560	SPV.0060 Special 34. 1.25-Inch Water Service Connection	5.000 EACH	_____.	_____.
0562	SPV.0060 Special 35. 2-Inch Water Service Connection	1.000 EACH	_____.	_____.
0564	SPV.0060 Special 36. Water Curb Stop Box	1.000 EACH	_____.	_____.
0566	SPV.0060 Special 37. Sanitary Sewer Service Cleanout	4.000 EACH	_____.	_____.
0568	SPV.0060 Special 38. Adjust Sanitary Sewer Service Cleanout	31.000 EACH	_____.	_____.
0570	SPV.0060 Special 39. Sanitary Force Main Service Offset	1.000 EACH	_____.	_____.



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SECTION: 0001 Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0572	SPV.0060 Special 40. 6-Inch Sanitary Service Connection	4.000 EACH	_____.	_____.
0574	SPV.0090 Special 01. Fence Split Rail Three Rail	138.000 LF	_____.	_____.
0576	SPV.0090 Special 02. Silt Fence Heavy Duty	4,960.000 LF	_____.	_____.
0578	SPV.0090 Special 03. Pipe Arch Corrugated Steel 95x67-Inch	64.000 LF	_____.	_____.
0580	SPV.0090 Special 04. 1.25-Inch HDPE Water Service	362.000 LF	_____.	_____.
0582	SPV.0090 Special 05. 2-Inch HDPE Water Service	32.000 LF	_____.	_____.
0584	SPV.0090 Special 06. 6-Inch PVC Water Main	338.000 LF	_____.	_____.
0586	SPV.0090 Special 07. 16-Inch PVC Water Main	860.000 LF	_____.	_____.
0588	SPV.0090 Special 08. Excavate and Install Polystyrene Insulation	1,933.000 LF	_____.	_____.
0590	SPV.0090 Special 09. 6-Inch PVC SDR 35	346.000 LF	_____.	_____.
0592	SPV.0090 Special 10. Wood Railing	572.000 LF	_____.	_____.
0594	SPV.0105 Special 01. Temporary Water Diversion B-67-380	LS	LUMP SUM	_____.
0596	SPV.0105 Special 02. Emergency Vehicle Preemption System Calhoun Rd & Burleigh Pl	LS	LUMP SUM	_____.
0598	SPV.0105 Special 03. Video Vehicle Detection System Calhoun Rd & Burleigh Pl	LS	LUMP SUM	_____.



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SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0600	SPV.0105 Special 04. Construction Staking Water Main	LS	LUMP SUM	_____.
0602	SPV.0105 Special 05. Construction Staking Sanitary Sewer	LS	LUMP SUM	_____.
0604	SPV.0165 Special 01. Wall Modular Block Gravity Landscape, Sta. 223+50 LT	520.000 SF	_____.	_____.
0606	SPV.0165 Special 02. Wall Modular Block Gravity Landscape, Sta. 276+50 RT	840.000 SF	_____.	_____.
0608	SPV.0170 Special 01. Proof Rolling	108.000 STA	_____.	_____.
0610	SPV.0180 Special 01. Reinforced Polyethylene Sheeting	185.000 SY	_____.	_____.
0612	SPV.0180 Special 02. Polystyrene Insulation	160.200 SY	_____.	_____.
0614	SPV.0200 Special 01. Rebuild Sanitary Sewer Manhole	53.400 VF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

PLEASE ATTACH ADDENDA HERE



Wisconsin Department of Transportation

December 2, 2020

**Division of Transportation Systems
Development**

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

Telephone: (608) 266-1631

Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #16: 2783-05-70, WISC 2021034
Calhoun Rd
Cth M To Sth 190
LOC STR
Waukesha County

2783-05-71
Calhoun Rd
Cth M To Sth 190
LOC STR
Waukesha County

Letting of December 8, 2020

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
6	Utilities

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

2783-05-70/71

December 2, 2020

Special Provisions

6. Utilities

*Replace entire section titled **Charter Communications** with the following:*

Charter Communications

Charter has existing underground lines on the east side of Calhoun Road from the south project limits to STA 231+75'NB' RT, overhead lines on We Energies poles from STA 231+75'NB' to STA 242+12'NB' RT, underground lines on the east side of Calhoun Road from STA 242+12'NB' RT to STA 243+50'NB' RT, underground lines on the east side of Calhoun Road from STA 269+39'NB' RT to STA 278+00'NB' RT, and overhead lines on We Energies poles from STA 282+66'NB' RT to STA 304+90'NB' RT and from 310+34'NB' RT to the north project limits. These facilities will be discontinued in place.

Charter Communications facilities will be relocated in a joint facility with We Energies Electric and will require 30 working days to complete connections after We Energies Electric relocations are complete. Refer to the We Energies Electric section of this article for a description of Charter Communications relocations.

Charter will install independent facilities at the following locations:

- Place new underground line along the north side of Pheasant Drive from STA 33+28 LT to an existing vault near STA 37+65 LT.
- Place new underground line from STA 242+60'NB', 38' RT to STA 243+23'NB', 69' RT.
- Place new underground line from STA 243+90'SB' to STA 249+47'SB', 39' to 48' LT.
- Place new pole anchor at STA 278+76.5'SB', 52' LT.
- Place new pedestals and power supplies at the following locations during construction. Contractor to grade around the pedestals and power supplies that are within the grading limits:
 - STA 237+48'SB', 47' LT (2 pedestals and 1 power supply)
 - STA 239+50'SB', 58' LT
 - STA 242+33'SB', 55' LT
 - STA 249+47'SB', 43' LT
 - STA 278+74'SB', 59' LT
 - STA 277+93'NB', 123' RT and 114' RT (south side of Burleigh Place)
 - STA 283+11'SB', 50' LT
 - STA 287+22'SB', 74' LT
 - STA 291+11'SB', 56' LT
 - STA 309+55'SB', 56' LT

*Replace entire section titled **Midwest Fiber Networks** with the following:*

Midwest Fiber Networks

Midwest Fiber has underground fiber optic on the west side of Calhoun Road from Brooklawn Drive to Burleigh Place, on the south side of Burleigh Place through the project limits, along the east side of Calhoun Road from Burleigh Place to STA 290+30'NB' RT, and from STA 304+90'NB' RT to the north project limits,

and a line to Fairview School at STA 296+60'SB', 24' to 240' LT. These facilities will be discontinued in place.

Midwest Fiber facilities will be relocated in a joint facility with We Energies Electric prior to and during construction from the south side of Brooklawn Drive to Capitol Drive. Midwest Fiber will require 15 working days to complete connections after We Energies Electric relocations are complete. Refer to the We Energies Electric section of this article for a description of Midwest Fiber relocations.

Midwest Fiber will install independent facilities at the following locations:

- Place new underground line from STA 269+84'SB', 83' LT to STA 269+87'SB', 62' LT to STA 270+09'SB', 38' LT to STA 277+14'SB', 38' LT.
- Place new underground line north of Pond 'FV' from STA 297+06'SB', 45' LT to STA 297+06'SB', 184' LT, to STA 296+60, 252' LT.
- Place new handholes at the following locations. Contractor to grade around the handholes that are within the grading limits.
 - STA 269+84'SB', 83' LT
 - STA 277+10'SB', 33' LT
 - STA 285+52'SB', 53' LT
 - STA 297+06'SB', 45' LT
 - STA 306+14'SB', 48' LT

*Replace entire section titled **We Energies Electric** with the following:*

We Energies Electric

We Energies Electric has underground facilities on the west side of Calhoun Road from the south project limits to River Birch Drive, on the east side of Calhoun Road from the south project limits to STA 222+75'NB' RT, on the east side of Calhoun Road from STA 269+35'NB' to STA 279+62'NB' RT, along the west side of Calhoun Road from STA 318+18'SB' LT to the north project limits, on the south side of Pheasant Drive, and along the south side of Burleigh Place. We Energies Electric has overhead facilities crossing Calhoun Road at STA 215+40'NB', along the east side of Calhoun Road from STA 231+77'NB' to STA 242+79'NB' RT, along the west side of Calhoun Road from STA 265+59'SB' to STA 271+86'SB' LT, along the east side of Calhoun Road from STA 278+09'NB' to the north project limits, and along the south side of Burleigh Place, with various overhead and underground crossings throughout the project.

Facilities in conflict with the proposed improvements will be relocated as described below. Existing overhead facilities will be removed, and existing underground facilities will be discontinued in place. Relocation of electric facilities will begin November 2020. Relocation of the electric facilities from the south project limits to River Birch Drive is expected to be complete by April 1, 2021. Relocation of the electric facilities from Burleigh Road to the north project limits is expected to be complete by July 1, 2021.

- Place new underground line from STA 214+11'NB', 53' RT to STA 215+30'NB', 53' RT.
- Place new underground crossing from STA 215+14'NB', 95' RT to STA 215+59'SB', 76' LT.
- Place new underground line from STA 215+29'SB', 50' LT to STA 215+87'SB', 46' LT.
- Place new underground line from STA 215+87'SB' to STA 233+50'SB', 35' LT.
- Place new underground crossing from STA 222+79'NB', 52' RT to STA 222+80'SB', 90' LT.
- Place new underground line from STA 222+80'SB' to STA 224+63'SB', 55' LT.
- Place new underground line from STA 213+80'SB', 105' LT to STA 233+50'SB', 35' LT, below the proposed storm sewer, temporary diversion pipes, and B-67-380.
- Place new overhead crossing from STA 231+80'SB, 101' LT to STA 231+74'NB, 153' RT

- Place new underground crossing from STA 233+50'SB', 38' LT to STA 233+50'NB', 55' RT.
- Place new underground line from STA 233+50'SB' to STA 236+20'SB', 38' LT.
- Place new underground line from STA 233+50'NB' to STA 240+96'NB', 55' RT.
- Place new underground crossing from STA 233+50'SB', 38' LT to STA 233+50'NB', 55' RT.
- Place new underground line from STA 236+20'SB' to STA 237+51'SB', 41' LT.
- Place new underground line from STA 237+51'SB' to STA 243+52'SB', 55' LT.
- Place new underground line along Pheasant Drive from STA 30+68 to STA 33+25, 40' to 45' LT, with crossings under Pheasant Drive at STA 31+14 and STA 33+25.
- Place new underground crossing from STA 239+50'SB', 55' LT to STA 239+50'NB', 55' RT.
- Place new underground line from STA 241+34'SB' to STA 242+38'SB', 58' LT.
- Place new underground line from STA 242+21'NB' to STA 242+54'NB', 32' RT.
- Place new underground line from STA 242+27'NB' to STA 242+60'NB', 38' RT.
- Place new underground line from STA 242+60'SB' to STA 243+55'SB', 50' LT.
- Place new underground line from STA 243+52'SB' 34' LT, to STA 251+11'SB', 34' LT.
 - At STA 250+76'SB', 34' LT, install new storm sewer and remove existing storm sewer beneath the relocated electric line.
- Place new underground crossing from STA 242+54'SB', 53' LT to STA 242+54'NB', 32' RT.
- Place new underground crossing from STA 242+60'SB', 50' LT to STA 242+60'NB', 38' RT.
- Place new underground line from STA 264+87'SB' to STA 266+49'SB', 55' LT. This line will be installed following completion of marsh excavation, backfill, subgrade construction, and base course placement. Coordinate with We Energies on placement of this line when the site will be available for We Energies to begin its work.
- Place new underground line from STA 264+87'SB' to STA 266+49'SB', 55' LT.
- Place new underground line from STA 266+49'SB' to STA 269+22'SB', 53' to 56' LT.
- Place new underground crossing from STA 269+22'SB', 55' LT to STA 269+22'NB', 46' RT.
- Place new underground line from STA 269+22'NB' to STA 271+41'NB', 46' RT.
- Place new underground line from STA 271+41'NB' to STA 273+37'NB', 51' RT.
- Place new underground line from STA 273+37'NB' to STA 275+29'NB', 46' RT angling to STA 275+53'NB', 49' RT, continuing north to STA 277+56'NB', 49' RT.
- Place new underground crossing from STA 277+14'SB', 51' LT to STA 277+14'NB', 49' RT.
- Place new underground crossing from STA 277+20'SB', 59' LT to STA 277+20'NB', 49' RT.
- Place new underground line from STA 277+14'SB' to STA 314+00'SB', 50' to 58' LT.
- Place new underground line from STA 277+20'SB' to STA 278+65'SB', 59' LT, angling to STA 278+82'SB', 53' LT.
- Place new underground line along Burleigh Place from STA 75+63, 81' RT to STA 75+98, 54' RT, to STA 76+40, 43' RT to STA 78+81, 43' RT.
- Place new poles at the following locations. Contractor to grade around the poles.
 - STA 215+64'SB', 75' LT
 - STA 231+80'SB', 101' LT

- STA 240+97'NB', 55' RT
- STA 267+35'SB', 49' LT
- Burleigh Place, STA 77+41, 29' RT, STA 77+39, 35' LT, and STA 78+77, 29' RT
- STA 278+82'SB', 46' LT
- STA 278+74'SB', 61' LT
- STA 304+06'SB', 52' LT
- Place new light poles at the following locations. Contractor to grade around the light poles.
 - STA 224+63'SB', 55' LT
 - STA 231+81'SB', 46' LT
 - STA 238+68'NB', 64' RT
 - STA 250+86'SB', 34' LT. This light pole will be 3' behind the curb.
 - STA 264+87'SB', 48' LT. This light pole will be installed following completion of marsh excavation, backfill, subgrade construction, and base course placement. Coordinate with We Energies on placement of this light pole when the site will be available for We Energies to begin its work.
 - STA 269+35'SB', 47' LT
 - STA 272+22'NB', 46' RT
 - STA 280+77'SB', 48' LT
 - STA 283+28'NB', 48' RT
 - STA 285+00'SB', 48' LT
 - STA 294+76'NB', 48' RT
 - STA 306+22'SB', 46' LT
 - STA 312+20'NB, 57' RT

END OF ADDENDUM

