

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
DT1502 10/2010 s.66.29(7) Wis. Stats.

Proposal Number:

12

| COUNTY | STATE PROJECT ID | FEDERAL PROJECT ID | PROJECT DESCRIPTION | HIGHWAY |
|--------|------------------|--------------------|---|---------|
| Dodge | 6083-00-73 | WISC 2015 090 | Center and Front Street C Beaver Dam Maple Avenue - Spring Street | STH 33 |
| Dodge | 6083-00-78 | | Center and Front Street C Beaver Dam Maple Avenue - Spring Street Sanitary Sewer and Water Improvements | STH 33 |

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, \$ 75,000.00 Payable to: Wisconsin Department of Transportation | Attach Proposal Guaranty on back of this PAGE. |
| Bid Submittal Due Date: February 10, 2015 Time (Local Time): 9:00 AM | Firm Name, Address, City, State, Zip Code |
| Contract Completion Time August 28, 2015 | SAMPLE NOT FOR BIDDING PURPOSES |
| Assigned Disadvantaged Business Enterprise Goal 7% | This contract is exempt from federal oversight. |

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

(Bidder Signature)

(Print or Type Bidder Name)

(Bidder Title)

For Department Use Only

| | |
|--|------------------------|
| Type of Work Excavation, select crushed material, base aggregate dense, concrete pavement, storm sewer, sanitary sewer, water main, curb and gutter, curb ramps, concrete sidewalk, traffic signals, pavement marking, permanent signing, bridge structure wing walls, street lighting, RRFB pedestrian crossing, and contaminated soils removal. | Date Guaranty Returned |
| Notice of Award Dated | |

**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.

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 <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm>. 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 P.M. local time on the Thursday before the letting. Check the department's web site after 5:00 P.M. 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 P.M. 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 <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm> or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, Madison, WI, during regular business hours.

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 <http://www.dot.wisconsin.gov/business/engrserve/bid-letting-information.htm>. 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 6083-00-73, Center and Front Street, C Beaver Dam, Maple Avenue – Spring Street, STH 33, Dodge 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, 2015 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 (20140630)

2. Scope of Work.

The work under this contract shall consist of removals, grading, sanitary sewer, water, storm sewer, base, concrete pavement, sidewalk, curb and gutter, street lighting, detour signing, permanent signing, pavement marking, traffic signals, B-14-0102 Rehab, Wingwall Replacement, 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 contractor shall install fixed message signs to notify the public of the upcoming construction project 2 weeks before the anticipated highway closure and detour.

Prosecution and progress meetings will be held once a week. The contractor's superintendent or appointed representative shall attend and provide a written or linear schedule of the next week's operations that conforms to standard spec 108.4.

Subcontractor's representatives for ongoing subcontract work or work beginning within the next two weeks shall also attend the meeting. Agenda items at the meeting will include a review of the contractor's linear schedule, an evaluation of progress, and revisions to the schedule if necessary.

The contractor is advised that there may be multiple mobilizations for such items as traffic control, signing and pavement marking items and other items related to the staging. The department will make no additional payment for said mobilizations.

Stage 1

Stage 1 begins at the Notice to proceed and ends no later than noon July 3, 2015.

Complete construction operations on STH 33 / Center Street to the stage necessary to reopen Center Street and Maple Avenue to local traffic, including the intersection of Center Street with Front Street west of Center Street, prior to noon July 3, 2015. Do not reopen until completing the following work: Sanitary sewer mains, laterals and structures; water mains and laterals; storm sewer mains, laterals and structures; removal and remediation of petroleum contaminated soils; construction of wing walls at the northwest and northeast corners of Structure B-14-102; base course, curb and gutter, concrete pavement, colored concrete crosswalk pavement, asphaltic surface, and light and signal pole bases. Concrete pavement shall be completed to the west side of the colored crosswalk on the east side of the Front and Center Street intersection. If the concrete sidewalks, topsoil, sod, permanent signing and permanent pavement marking on Center Street are not yet complete when Center Street is opened to local traffic, the contractor will be responsible for the cost of maintaining temporary pedestrian access and any needed traffic control items as directed by the engineer until those permanent items are completed. Do not remove any of the pavement or sidewalks, or interfere with local traffic on Spring Street and Park Avenue, east of Spring Street, until the completion of Stage 1.

Stage 2A

Stage 2A begins at the completion of Stage 1 and ends no later than 11:59 PM July 31, 2015.

Complete construction operations on STH 33 / Spring Street intersection to the stage necessary to complete the following work: All remaining sanitary sewer mains, laterals and structures; water mains and laterals; storm sewer mains, laterals and structures.

Stage 2B

Stage 2B begins at the completion of Stage 2A and ends no later than 11:59 PM August 28, 2015. Do not remove the detour and reopen to through traffic until completing the following work: base course, curb and gutter, concrete pavement, colored pavement, light and signal bases and poles, concrete sidewalk, traffic signs, pavement marking, traffic signals and lighting complete, and all other project work and restoration items complete throughout the project, including Center Street, Maple Avenue, Front Street / Park Avenue and Spring Street.

Work on Front Street between the Center Street and Spring Street intersections can be completed during any stage, as long as the work does not interfere with Spring Street local traffic during Stage 1 or with Center Street local traffic during Stages 2A and 2B. The STH 33 detour route signing shall remain in place for traffic throughout the construction project, with only local traffic being accommodated by the staged traffic.

4. Traffic.

Close STH 33 to through traffic within the project limits while this project is under construction. A detour route will be utilized to route traffic around the project. The detour route (westbound) follows USH 151 to Industrial Drive to DeClark Street to STH 33, as detailed on the plans.

Two pre-warning signs, sign code G20-57, paid as Traffic Control Signs Fixed Message, shall be placed as shown in the traffic control detail sheets two weeks prior to the anticipated start date for the detour route.

The City of Beaver Dam will deactivate the existing signals at the intersections of Maple Avenue and Center Street, Center Street and Front Street, Front Street and Spring Street during the time that STH 33 / Center Street / Front Street is closed. The contractor shall coordinate the signal deactivation with the city by contacting Ritchie Piltz at (920) 887-4600 Ext. 326 at least three working days prior to closing the highway. The signals are to be deactivated when the road closure signing and traffic control devices are in place and the temporary all-way stop condition is established at these intersections.

Maintain vehicular access at all times to all driveways, public alleys and side roads throughout construction; except during paving and utility installation operations occurring in the immediate vicinity of the access point. When access must be limited due to construction operations, notify the engineer and property owners at least 48 hours prior to the beginning of the construction operation. Complete the work in a reasonable time and manner to resume access to the driveway or side road.

Maintain emergency vehicle access and delivery vehicle access at all times to all properties throughout construction; except during paving and utility installation operations occurring in the immediate vicinity of the property. When access must be limited due to construction operations, notify the police and fire departments, the engineer and property owners and occupants at least 48 hours prior to the beginning of the construction operation. Complete the work in a reasonable time and manner to resume access to the property.

Notify the property occupant five calendar days in advance of driveway reconstruction to verify closure or staged driveway construction methods. Construct driveway approaches to commercial properties in stages if the property does not have an alternate access available so that at least one access is maintained to each business at all times.

Do not store vehicles, equipment or materials on adjacent streets beyond the project limits without specific approval of the engineer.

Provide and maintain temporary pedestrian access as shown in the plans. If the engineer determines that additional locations are needed, provide them at locations as directed by the engineer. These crossings shall meet the requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and shall consist of temporary asphaltic surface, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable. The Temporary Crosswalk bid item (SPV.0045.01) provides payment for installing and maintaining an accessible pedestrian crossing at these locations throughout the construction project until the permanent crossings are complete.

If additional special pedestrian access needs are identified along the project, provide for that access as directed by the engineer.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 33 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 22, 2015 to 6:00 AM Tuesday, May 26, 2015 for Memorial Day;
- From noon Friday, July 3, 2015 to 6:00 AM Monday, July 6, 2015 for Independence Day;
- From noon Friday, September 4, 2015 to 6:00 AM Tuesday, September 8, 2015 for Labor Day.

107-005 (20050502)

6. Utilities.

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

107-065 (20080501)

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

Alliant Energy – Gas has facilities throughout the project. Mains and laterals along Front Street have been relocated and old mains discontinued in-place between Stations 6+50 to 13+00. Alliant will remove the discontinued lines after the pipe has been fully exposed. Please provide the Trans 220, 14-calendar day good faith notice and the 3-business day follow up confirmation notice when they have exposed the pipe. Removal work will be

one to two days with the exception of the gas main through the storm box culvert at Station 9+70 SS, which will require 3 working days.

AT&T Wisconsin – At the intersection of Maple Avenue and Center Street; at Station 1+32 12.5' LT MH 4002 is in direct conflict with the revised proposed storm, this also includes the vacant 2-3" S.P.(sewer pipe) package to the north for 75' from the manhole which will be abandon in place.

A new MH will be placed on the SE corner of the intersection at Station 1+41.5; 24.5' LT (see attached drawing).The duct package and cables will be moved into the new manhole. This work will be done prior to construction and take approximately 10 days to complete. The existing MH will be removed prior to construction and be done within the 10 day time frame after cables are moved into the new MH.

This work will require most of the intersection to be closed, AT&T will work with the city for a detour.

AT&T has a duct package - 4 M.T.D. to the east from the existing MH 4002 that houses copper and fiber cables that will be shifted into the proposed MH at Station 1+41; 24.5' LT, prior to construction and within the 10 days as previously noted. Split duct will be placed over the cables from the proposed manhole and connect the existing M.T.D. at approximately Station 10+33; 7' RT.

AT&T has a duct package – 2-3" S.P. to the west from the existing MH 4002 that is vacant and will be abandon in place. AT&T also has a fiber that is direct buried that was recently placed that is too shallow and will have to be lowered 1' and split duct placed at time of road construction after pavement is removed. This will take approximately 1 day after pavement is removed.

AT&T has a duct package from MH #4002 to MH #4003 that will need to be lowered prior to construction due to road cut from Station 1+50 to Station 3+50.

AT&T has a manhole at Station 3+55; 12.6' LT that will be rebuilt prior to construction and will take approximately 5 days. This manhole will be shifted to the west 3'-4' as much as the cables will allow and as not to damage the existing storm. This existing storm is to be removed after the proposed storm sewer is in place and active.

AT&T has two 1-4" S.P. vacant conduits that leave MH 4003, going to the north, and will be abandoned in place.

AT&T has an active 1-3" S.P. that leaves MH 4003 and goes west at Station 3+55 that will be lowered at time of construction after surface is removed. It will take approximately 2 days to complete working directly with the road contractor once pavement is removed.

AT&T has 4-M.T.D package that leaves MH 4003 and goes south and crosses Front Street (BUS 151) along Center Street, said package will be lowered from Stations 3+62 16'LT, to station 4+65 17'LT. This will be done prior to construction.

AT&T has 4-M.T.D. package that crosses Front Street / E. Park Avenue along N. Spring Street.

AT&T has a 4-M.T.D. package at Station 10+50; 7.5' LT that needs to be raised and supported during construction of the storm sewer. AT&T will be working directly with the road contractor.

Continuing on Spring Street at Station 9+88 17'LT the 4 M.T.D. will be lowered and splayed placing split duct over proposed storm sewer this will take approximately. 1-2 days. AT&T will work directly with the road contractor once pavement is removed.

AT&T has a 4-M.T.D. package that crosses through and into the top of the 5'x6' storm box at Station 9+70 SS, 18' LT that is being removed. The duct package is approximately 8" down from the inside roof of the box culvert. AT&T will remove concrete from around the cables, support cables and conduit during construction and work directly with the road contractor during removal of the top of the box culvert. Removing the concrete from around the conduit and placing a support after the pavement is removed will take 1 day to complete. Concrete encasement may be needed if it is determined that the ducts are not 18" below sub grade.

AT&T will require 3 working day notice for line adjustments.

The following utility companies have facilities within the project area; however, no adjustments are anticipated:

Alliant Energy – Electric
Charter Communications – Communication

This contract does not come under the provision of Administrative Rule Trans 220. 107-065 (20080501)

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

City of Beaver Dam (Sanitary Sewer) has underground facilities located within the project. Relocation of the underground facilities will be accomplished as part of contract 6083-00-78.

Coordinate operations with the City of Beaver Dam. Contact Richie Piltz at (920) 887-4600 Ext. 326.

City of Beaver Dam (Water) has underground facilities located within the project. Relocation of the underground facilities will be accomplished as part of contract 6083-00-78.

Coordinate operations with the City of Beaver Dam. Contact Richie Piltz at (920) 887-4600 ext. 326.

7. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 7:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.
107-001 (20060512)

8. Electrical Service Unmetered.

Supplement standard spec 656.3.5 as follows:

Furnish and install all necessary appurtenances to connect the Electrical Wire Traffic Signals (Size) from the power supply at the existing cabinet location to the new cabinet location, including splice kits, so that the new cabinet has the necessary power supply for acceptable operation. New pull boxes and a separate conduit run are also provided for these facilities.

Install items according to all applicable state and local electrical codes.

9. General Requirement for Electrical.

The approved products list is located at:

<http://www.dot.wisconsin.gov/business/engrserv/approvedprod.htm>

10. Municipality Acceptance of Street Lighting Construction.

The department and City of Beaver Dam personnel or its designated representatives will observe and inspect the construction of the street lighting system under this contract. Compliance testing shall be performed by contractor in the presence of City of Beaver Dam personnel or its designated representatives. Final acceptance of the street lighting construction will be by City of Beaver Dam personnel.

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

The department and City of Beaver Dam personnel or its designated representatives will observe and inspect the construction of the sanitary sewer and water main under this contract. Compliance testing shall be performed by contractor in the presence of City of Beaver Dam personnel or its designated representatives. Final acceptance of the sanitary sewer and water main construction will be by City of Beaver Dam personnel.

12. Referenced Construction Specifications.

Construct the sanitary sewer and water main work 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.

13. General Sanitary Sewer and Water Main Construction.

All sanitary sewer and water main construction work shall be done in accordance to these special provisions and the "Standard Specifications for Sewer and Water Construction in Wisconsin", latest edition and all amendments to date thereto.

The City of Beaver Dam or its designated representative will provide construction staking of the sanitary sewer and water main facilities. The contractor shall be responsible for the cost of any extra staking required and/or replacement of any stakes negligently disturbed. The contractor shall notify the city or its designated representative at least three working days prior to the need for construction staking. The following staking will be provided.

Sanitary Sewer: Set one offset hub for each manhole along with offset hubs at 0+25, 0+50, 1+00, 2+00, 3+00, etc. along the length of the pipe run between manhole structures. The offset distance shall be mutually agreed upon by the contractor and the city. The city or its designated representative shall prepare a cut sheet for the contractor. The cut sheet shall show the elevations of the offset hubs relative to the corresponding manhole and pipe elevations.

Water Main: Set one offset hub for each hydrant, tee, cross, valve, horizontal bend point or vertical bend point. The offset distance shall be mutually agreed upon by the contractor and the city. The city or its designated representative shall prepare a cut sheet for the contractor. The cut sheet shall show the elevations of the offset hubs relative to the corresponding structure elevations.

14. Work By Others.

The City of Beaver Dam has a let contract to reconstruct a section of North Spring Street. This section of work abuts the WisDOT STH 33 roadway project that includes work on N. Spring Street, Station 10+00'NS' – 11+10'NS'.

Anticipated construction operations for this work will begin after completion of STH 33 Stage 1 work, July 3, 2015 to the substantial completion date of August 28, 2015 and falls concurrently with Stage 2A/B of the STH 33 work. Coordinate project work activities and traffic control as necessary with the project contractor to minimize disruptions to individual projects, the traveling public, and local residents and business owners.

The contact for the N. Spring Street reconstruction project is:

Ritchie Piltz
Engineering Coordinator
City of Beaver Dam
205 S. Lincoln Avenue
Beaver Dam, WI 53916
(920) 887-4600 Ext 326<<<<

15. Coordination with Businesses.

The contractor shall arrange and conduct a meeting between the contractor, the department, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting prior to the start of work under this contract and hold two meetings per month thereafter.

108-060 (20030820)

16. Maintain Pedestrian Access.

Maintain ADA accessible pedestrian access a minimum of 6' wide on either the existing sidewalks or a temporary sidewalk surface to all business and residential entrances for as long as possible. The contractor may use the existing sidewalks along Front Street to approximately 6' from the face of the buildings or may provide a temporary surface along the faces of the buildings for pedestrian access, while the majority of the roadway part of the project is completed, as shown in the plan details. Along Center and Spring Streets, the section of the sidewalk to remain may be narrowed to no less than 4' wide. Provide protection acceptable to the engineer from any drop-off exceeding 6".

When the remaining sidewalks need to be removed for replacement, the contractor shall have the base course material leveled and compacted in the removal areas within 24 hours, and the new concrete sidewalks must be in place and available for pedestrian use within the same work week. The contractor will only be allowed to remove the sidewalk on one side of the street at a time.

If a business or residence does not have another entrance that can be used during the placement of the new concrete sidewalk, the contractor must provide a temporary bridge over the new concrete to the entrance until the new concrete has sufficient strength to carry pedestrian traffic without being damaged.

If small areas of sidewalk would need to be removed for other work, such as utility line replacement, those areas will need to be returned to a smooth, level and traversable hard surface acceptable to the engineer within 24 hours.

Pedestrian access to S. Center Street need not be maintained during the construction of the wing-walls (retaining walls) and structure approach on the north side of the bridge and the relocation of the existing fence, pillars, and sidewalk in that area.

17. Protect Private Well at 144 Front Street.

Protect and work around an existing private well to remain, located within the sidewalk area near the east edge of the property at 144 Front Street, Ming's Garden Buffet restaurant. While replacing sidewalk, carefully compact the base material around the well and place a ½-inch wide expansion joint filler between the well casing and the new concrete sidewalk.

18. Removing Old Structure Station 9+50 LT and RT.

Standard bid item Removing Old Structure Station 9+50 LT and RT includes removing existing foundations and walls, if any, to the required limits shown in the plans as necessary for the construction of wing walls at the north abutment of existing bridge B-14-0102. Removal includes only items noted on the structure plans for B-14-0102 Rehab.

19. Removing Traffic Signal Equipment, Maple Avenue and Center Street, Item 204.9105.S.01; Front Street and Center Street, Item 204.9105.S.02; Front Street and Spring Street, Item 204.9105.S.03.

A Description

This special provision describes removing existing traffic signal equipment at the intersection of Center Street and Maple Avenue, at the intersection of Front Street and Center Street, and at the intersection of Front Street and Spring Street in accordance to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals at the Center Street and Maple Avenue intersection with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Arrange for the de-energizing of the traffic signals at the Front Street and Center Street intersection with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Arrange for the de-energizing of the traffic signals at the Front Street and Spring Street intersection with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Notify Jeremy Klug at the City of Beaver Dam at (920) 887-4635 at least three working days prior to the removal of the traffic signals to coordinate delivery of existing equipment. Complete the removal work as soon as possible following shut down of this equipment.

Remove all standards, poles, and arms from their concrete footings and disassemble out of traffic. Remove the transformer or pedestal bases from each pole. Remove the signals heads, mast arms, luminaires, wiring/cabling and traffic signal mounting devices from each signal standard, pole or arm. Ensure that access handhole doors and hardware remain intact. Dispose of the underground signal cable, street lighting cable, detector lead-in cable and all wires, including loop wire.

Remove the signal cabinet from its footing.

Deliver the signal cabinet and all contents including controller, signal heads, signal standards, mast arms, luminaire arms, transformer bases, poles, pull box covers, and traffic signal heads to the City of Beaver Dam Public Works Garage at 640 S. Center Street. Contact Jeremy Klug at the City of Beaver Dam at (920) 887-4635 at least five working days prior to delivery.

D Measurement

The department will measure Removing Traffic Signal Equipment, (Location) as a single complete lump sum unit of work for the intersection, acceptably completed.

E Payment

Supplement standard spec 204.5 to include the following:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| 204.9105.S.01 | Removing Traffic Signal Equipment, Center Street and Maple Avenue | LS |
| 204.9105.S.02 | Removing Traffic Signal Equipment, Front Street and Center Street | LS |
| 204.9105.S.03 | Removing Traffic Signal Equipment, Front Street and Spring Street | LS |

20. 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 DNR approved bioremediation facility. The closest DNR approved bioremediation facilities are the Veolia ES – Glacier Ridge Landfill, N7296 County

Road V, Horicon, Wisconsin 53032, and Waste Management – Madison-Prairie Landfill, at 6002 Nelson road, Sun Prairie, Wisconsin 53590.

Perform this work in accordance 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 and Groundwater Location(s)

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil and/or groundwater is present at the following location(s) as shown on the plans:

Site 2: 201 N. Center Street

Groundwater contamination (if dewatering is necessary):

- On N. Center Street (CTH 33) Station 0+50 to 1+30 from reference line to construction limits left, below 12 feet below ground surface.

Site 4: City of Beaver Dam Parking Lot

Soil contamination:

- On N. Center Street (CTH 33) Station 3+00 to 3+40 from 20 feet right of reference line to construction limits right, below 6 feet below ground surface.

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

For further information regarding previous investigation and remediation activities at these sites contact:

Name: TRC Environmental Corporation, Mr. Dan Haak or
Mr. Dennis Siewert
Address: 708 Heartland Trail, Suite 3000, Madison, WI 53717
Phone: (608) 826-3628 / (608) 826-3659
Fax: (608) 826-3941
E-mail: DHaak@TRCSolutions.com, DSiewert@TRCSolutions.com

A.3 Coordination

Coordinate work under this contract with the environmental consultant retained by the department:

Name: TRC Environmental Corporation, Mr. Dan Haak or
Mr. Dennis Siewert
Address: 708 Heartland Trail, Madison, Suite 3000, WI 53717
Phone: (608) 826-3628 / (608) 826-3659
Fax: (608)-826-3941
E-mail: DHaak@TRCSolutions.com, DSiewert@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 each of the contaminated areas.

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.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

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.4 Protection of Groundwater Monitoring Wells

Groundwater monitoring wells may be present within the construction limits. Protect all groundwater monitoring wells to maintain their integrity. Adjust wells that do not conflict with utilities, structures, curb and gutter, etc. to be flush with the final grade. For wells that conflict with the previously mentioned items, notify the environmental consultant, and coordinate with the environmental consultant the abandonment or adjustment of the wells by others. The environmental consultant will provide maps indicating the locations of all known monitoring wells, if requested by the contractor.

A.5 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR's concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding the investigations, including waste characterization within the project limits, contact Brian Taylor with the department, at (608) 245-2630.

A.6 Health and Safety Requirements for Workers Remediating Contamination

Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products. 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.

Disposal of petroleum-contaminated soil is subject to the bioremediation facility's safety policies at the bioremediation facility, which include as a minimum:

- 1) No smoking is allowed on-site.
- 2) Maximum speed limit of 15 mph on access roads and 5 mph while in active area
- 3) All persons entering the active area must wear the following personal protective equipment: hard hats, high visibility clothing, steel toed work boots, safety glasses, and seat belts
- 4) Minimum requirement for spacing is as follows:
 - a) A minimum 15 foot Safety Zone is required between landfill equipment and all personnel at all times.
 - b) Do not back up directly behind the compactor or dozer.
 - c) Trucks must yield the right-of-way to landfill equipment.
 - d) 15 feet required between trucks
- 5) Only the driver can exit the truck and must stay within 4 feet of the truck. Use of Spotter is prohibited. Helper (if any), must remain in vehicle while unloading.
- 6) Tailgates of all vehicles may only be opened while in the active area and must be closed prior to exiting the active area.
- 7) Cleaning out vehicles must be done in designated area, not in the active area. Vehicles must be properly locked out / tagged out in accordance to OSHA during the clean out process.

- 8) No Scavenging is allowed.
- 9) Horseplay is prohibited

Violation of the landfill's safety policy will result a verbal or written warning explaining this policy and may result in the loss of dumping privileges.

Immediately report all accidents and injuries at the bioremediation facility to landfill management.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

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.

On the basis of the results of such field-screening, the material will be designated for disposal as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or
- Low-level contaminated material for reuse as fill within the construction limits, or
- Contaminated soil for off-site treatment and disposal at the WDNR-licensed bioremediation facility, or
- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 100 cubic yards of contaminated soil on-site that require additional characterization. Construct and maintain a temporary stockpile of the material in accordance to NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The department's environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 10 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the

WDNR-licensed disposal facility by the contractor or, if characterized as hazardous waste, by the department. As an alternative to temporarily stockpiling contaminated soil/fill material that requires additional characterization, the contractor has the option of suspending excavation in those areas where such soil is encountered until such time as characterization is completed.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Verify that vehicles used to transport contaminated material are licensed for such activity in accordance to applicable state and federal regulations. 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.

When material is encountered outside the above-identified limits of known contamination that appears to have been impacted with petroleum or chemical products, or when other obvious potentially contaminated materials are encountered or material exhibits characteristics of industrial-type wastes, such as fly ash, foundry sand, and cinders, or when underground storage tanks are encountered, suspend excavation in that area and notify the engineer.

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. Load tickets must be delivered to the engineer within 10 business days of the date on which the soil was accepted 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 for treatment via bioremediation of contaminated soil, including tipping fees; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; dewatering of soils prior to transport, if necessary; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.
205-003 (20080902)

21. Health and Safety Requirements for Workers Remediating Petroleum Contamination.

Supplement standard spec 107.1(2) with the following:

Soil contamination with gasoline, diesel fuel, fuel oil, or other petroleum related products may be encountered during excavation activities. Prepare a site specific Health and Safety Plan complying with the Occupational Safety and Health Administration (OSHA) standard for Hazardous Waste Operation and Emergency Response (HAZWOPER), 29 CFR 1910.120.

All site workers taking part in remediation activities or who will have the reasonable probability of exposure of safety or health hazards associated with the hazardous material shall have completed Health and Safety training that meets OSHA requirements. Prior to the start of remediation work, submit to the engineer a site specific Health and Safety Plan, and written verification that workers will have completed up-to-date OSHA training.

Develop, delineate, and enforce the health and safety exclusions zones for each contaminated site location pursuant to 29 CFR 1910.120.
107-115 (20050502)

22. QMP Base Aggregate.

A Description

A.1 General

- (1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.
- (2) Conform to standard spec 301, standard spec 305, and standard spec 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.
- (3) Do not apply this special provision to material placed under the Aggregate Detours, Salvaged Asphaltic Pavement Base, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.
- (4) Provide and maintain a quality control program, defined as all activities related to and documentation of the following:
 1. Production and placement control and inspection.
 2. Material sampling and testing.

- (5) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required sampling and testing procedures. The contractor may obtain the CMM from the department's web site at:

<http://roadwaystandards.dot.wi.gov/standards/cmm/index.htm>

A.2 Contractor Testing for Small Quantities

- (1) The department defines a small quantity, for each individual Base Aggregate bid item, as a plan quantity of 9000 tons or less of material as shown in the schedule of items under that bid item.
- (2) The requirements under this special provision apply equally to a small quantity for an individual bid item except as follows:
1. The contractor need not submit a full quality control plan but shall provide an organizational chart to the engineer including names, telephone numbers, and current certifications of all persons involved in the quality control program for material under affected bid items.
 2. Divide the aggregate into uniformly sized sublots for testing as follows:

| Plan Quantity | Minimum Required Testing |
|------------------------------------|--|
| ≤ 1500 tons | One test from production, load-out, or placement at the contractor's option ^[1] |
| > 1500 tons and ≤ 6000 tons | Two tests of the same type, either from production, load-out, or placement at the contractor's option ^[1] |
| > 6000 tons and ≤ 9000 tons | Three placement tests ^{[2][3]} |

- ^[1] If using production tests for acceptance, submit test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.
- ^[2] For 3-inch material, obtain samples at load-out.
- ^[3] If the actual quantity overruns 9000 tons, create overrun sublots to test at a rate of one additional placement test for each 3000 tons, or fraction of 3000 tons, of overrun.
3. No control charts are required. Submit aggregate load-out and placement test results to the engineer within one business day of obtaining the sample. Assure that all properties are within the limits specified for each test.
 4. Department verification testing is optional for quantities of 6000 tons or less.
- (3) Material represented by a subplot with any property outside the specification limits is nonconforming. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

B Materials

B.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.

- (2) Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in each of the contractor's laboratories 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 means that will be used, and action time frames.
 3. A list of source and processing locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
 4. Test results for wear, sodium sulfate soundness, freeze/thaw soundness, and plasticity index of all aggregates requiring QC testing. Obtain this information from the region materials unit or from the engineer.
 5. Descriptions of stockpiling and hauling methods.
 6. Locations of the QC laboratory, retained sample storage, and where control charts and other documentation is posted.
 7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

B.2 Personnel

- (1) Have personnel certified under the department's highway technician certification program (HTCP) perform sampling, testing, and documentation as follows:

| Required Certification Level: | Sampling or Testing Roles: |
|---|--|
| Aggregate Technician IPP Aggregate Sampling Technician Aggregate Assistant Certified Technician (ACT-AGG) | Aggregate Sampling ^[1] |
| Aggregate Technician IPP Aggregate Assistant Certified Technician (ACT-AGG) | Aggregate Gradation Testing, Aggregate Fractured Particle Testing, Aggregate Liquid Limit and Plasticity Index Testing |

^[1] Plant personnel under the direct observation of an aggregate technician certified at level one or higher may operate equipment to obtain samples.

- (2) 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.

B.3 Laboratory

- (1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section
3502 Kinsman Blvd.
Madison, WI 53704
Telephone: (608) 246-5388
<http://www.dot.state.wi.us/business/engrserv/lab-qualification.htm>

B.4 Quality Control Documentation

B.4.1 General

- (1) Submit base aggregate placement documentation to the engineer within 10 business days after completing base placement. Ensure that the submittal is complete, neatly organized, and includes applicable project records and control charts.

B.4.2 Records

- (1) Document all placement observations, inspection records, and control adjustments daily in a permanent field record. Also include all test results in the project records. Provide test results to the engineer within 6 hours after obtaining a sample. For 3-inch base, extend this 6-hour limit to 24 hours. Post or distribute tabulated results using a method mutually agreeable to the engineer and contractor.

B.4.3 Control Charts

- (1) Plot gradation and fracture on the appropriate control chart as soon as test results are available. Format control charts according to CMM 8.30. Include the project number on base placement control charts. Maintain separate control charts for each base aggregate size, source or classification, and type.
- (2) Provide control charts to the engineer within 6 hours after obtaining a sample. For 3-inch base, extend this 6-hour limit to 24 hours. Post or distribute charts using a method mutually agreeable to the engineer and contractor. Update control charts daily to include the following:
 1. Contractor individual QC tests.
 2. Department QV tests.
 3. Department IA tests.
 4. Four-point running average of the QC tests.
- (3) Except as specified under B.8.2.1 for nonconforming QV tests, include only QC tests in the running average. The contractor may plot process control or informational tests on control charts, but do not include these tests, conforming QV tests, or IA tests in the running average.

B.5 Contractor Testing

- (1) Test gradation, fracture, liquid limit and plasticity index during placement for each base aggregate size, source or classification, and type.
- (2) Test gradation once per 3000 tons of material placed. Determine random sample locations and provide those sample locations to the engineer. Obtain samples after the material has been bladed, mixed, and shaped but before compacting; except collect 3-

inch samples from the stockpile at load-out. Do not sample from material used to maintain local traffic or from areas of temporary base that will not have an overlying pavement. On days when placing only material used to maintain local traffic or only temporary base that will not have an overlying pavement, no placement testing is required.

- (3) Split each 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.
- (4) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.
- (5) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.
- (6) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

- (1) Test gradation using a washed analysis conforming to the following as modified in CMM 8.60:
Gradation..... AASHTO T 27
Material finer than the No. 200 sieve..... AASHTO T 11
- (2) For 3-inch base, if 3 consecutive running average points for the percent passing the No. 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis. Wash at least one sample out of 10. If a single running average for the percent passing the No. 200 sieve exceeds 8.5 percent, resume washed analyses until 3 consecutive running average points are again 8.5 percent passing or less.
- (3) Maintain a separate control chart for each sieve size specified in standard spec 305 or standard spec 310 for each base aggregate size, source or classification, and type. Set control and warning limits based on the standard specification gradation limits as follows:
 1. Control limits are at the upper and lower specification limits.
 2. There are no upper warning limits for sieves allowing 100 percent passing and no lower control limits for sieves allowing 0 percent passing.
 3. Dense graded warning limits, except for the No. 200 sieve, are 2 percent within the upper and lower control limits. Warning limits for the No. 200 sieve are set 0.5 percent within the upper and lower control limits.
 4. Open graded warning limits for the 1-inch, 3/8-inch, and No. 4 sieves are 2 percent within the upper and lower control limits. Upper warning limits for the No. 10, No. 40, and No. 200 sieves are 1 percent inside the upper control limit.

B.6.2 Fracture

- (1) Test fracture conforming to CMM 8.60. The engineer will waive fractured particle testing on quarried stone.
- (2) Maintain a separate fracture control chart for each base aggregate size, source or classification, and type. Set the lower control limit at the contract specification limit, either specified in another special provision or in table 301-2 of standard spec 301.2.4.5. Set the lower warning limit 2 percent above the lower control limit. There are no upper limits.

B.6.3 Liquid Limit and Plasticity

- (1) Test the liquid limit and plasticity according to AASHTO T 89 and T 90.
- (2) Ensure the material conforms to the limits specified in standard spec table 301-2.

B.7 Corrective Action

B.7.1 General

- (1) Consider corrective action when the running average trends toward a warning limit. Take corrective action if an individual test exceeds the contract specification limit. Document all corrective actions both in the project records and on the appropriate control chart.

B.7.2 Placement Corrective Action

- (1) Do not blend additional material on the roadbed to correct gradation problems.
- (2) Notify the engineer whenever the running average exceeds a warning limit. When 2 consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:
 1. For gradation, increase the QC testing frequency to at least one randomly sampled test per 1000 tons placed.
 2. For fracture, increase the QC testing frequency to at least one test per gradation test.
- (3) If corrective action improves the property in question such that the running average after 4 additional tests is within the warning limits, the contractor may return to the testing frequency specified in B.5.3. If corrective action does not improve the property in question such that the running average after 4 additional individual tests is still in the warning band, repeat the steps outlined above starting with engineer notification.
- (4) If the running average exceeds a control limit, material starting from the first running average exceeding the control limit and ending at the first subsequent running average inside the control limit is nonconforming and subject to pay reduction.

- (5) For individual test results significantly outside the control limits, notify the engineer, stop placing base, and suspend other activities that may affect the area in question. The engineer and contractor will jointly review data, data reduction, and data analysis; evaluate sampling and testing procedures; and perform additional testing as required to determine the extent of potentially unacceptable material. The engineer may direct the contractor to remove and replace that material. Individual test results are significantly outside the control limits if meeting one or more of the following criteria:
 1. A gradation control limit for the No. 200 sieve is exceeded by more than 3.0 percent.
 2. A gradation control limit for any sieve, except the No. 200, is exceeded by more than 5.0 percent.
 3. The fracture control limit is exceeded by more than 10.0 percent.

B.8 Department Testing

B.8.1 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 2 business days after the department obtains the sample.

B.8.2 Verification Testing

B.8.2.1 General

- (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 B.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.
- (2) The department will conduct QV tests of each base aggregate size, source or classification, and type during placement conforming to the following:
 1. One non-random test on the first day of placement.
 2. At least one random test per 30,000 tons, or fraction of 30,000 tons, placed.
- (3) The department will sample randomly, at locations independent of the contractor's QC work, collecting one sample at each QV location. The department will collect QV samples after the material has been bladed, mixed, and shaped but before compacting; except, for 3-inch aggregates, the department will collect samples from the stockpile at load-out. The department will split each sample, test half for QV, and retain half.
- (4) 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.

- (5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

B.8.3 Independent Assurance

- (1) Independence 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. Reviewing required worksheets and control charts.
 6. 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 B.9.

B.9 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 may review the data, examine data reduction and analysis methods, evaluate sampling and testing 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 the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product, 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 (Vacant)

D (Vacant)

E Payment

- (1) Costs for all sampling, testing, and documentation required under this special provision are incidental to this work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the non-performance of QMP administrative item.
- (2) For material represented by a running average exceeding a control limit, the department will reduce pay by 10 percent of the contract price for the affected Base Aggregate bid items listed in subsection A. The department will administer pay reduction under the Nonconforming QMP Base Aggregate Gradation or Nonconforming QMP Base Aggregate Fracture Administrative items. The department will determine the quantity of nonconforming material as specified in B.7.2.

301-010 (20100709)

23. Base Aggregate Dense 1 1/4-Inch, Item 305.0120.

Revise standard spec 305.2.2.1 as follows:

Use 1 1/4-Inch base aggregate that conforms to the following gradation requirements.

| SIEVE | PERCENT PASSING BY WEIGHT |
|------------|------------------------------|
| 1 1/4 inch | 95 - 100 |
| 1 inch | --- |
| 3/4 inch | 70 - 90 |
| 3/8 inch | 45 - 75 |
| No. 4 | 30 - 60 |
| No. 10 | 20 - 40 |
| No. 40 | 7 - 25 |
| No. 200 | 2 - 12 ^{[1], [2]} |

^[1] Limited to a maximum of 8.0 percent for base placed between old and new pavement.

^[2] 3 - 10 percent passing when base is ³ 50% crushed gravel

24. Pipe Underdrain 6-Inch.

Delete standard spec 612.3.5(4) and replace with the following:

Use coarse aggregate conforming to size No. 1 of standard spec 501.2.5.4, for trench backfill in the edge drain system for concrete pavements as the plans show.

Pipe Underdrain 6-Inch shall be laid to discharge into the new storm sewer catch basins and inlets at locations as directed by the engineer. Connections to the storm sewer structures will be incidental to the Pipe Underdrain 6-Inch item.

25. Erosion Control.

Supplement standard spec 107.20 (3) to include the following:

The ECIP shall discuss how the surface water drainage will be accommodated during construction operations as required by standard spec 205.3.3. Accumulation of surface water within the project grading limits shall be limited to a 24 hour period. The ECIP shall include specific detailed information on what temporary drainage installations will be utilized and an implementation plan to meet this 24 hour requirement. All temporary drainage installations shall be in conformance with all state and federal rules and regulations. If the contractor fails to implement the temporary drainage installations, as described in the ECIP, and surface water drainage is allowed to accumulate within the grading limits for longer than a 24 hour period, the contractor will be responsible for the cost of all work and materials required to correct the resulting saturated subgrade. This shall include but is not limited to any EBS that becomes necessary, as well as any grade stabilization measures such as geogrid and Select Crushed Material utilized to backfill the EBS area. Constructing and removing temporary drainage installations, as specified under standard spec 205.3.3, is incidental to the work under standard spec 205.

26. Landscape Restoration.

The contractor shall restore any disturbed items in the landscaped areas at the southwest corner of Center Street and Maple Avenue and at the northwest corner of N. Spring and Front Streets to the locations and condition found prior to any disturbance that may be caused by the construction operations. This work shall be incidental to any construction operation that causes a disturbance of any items in this area other than the grass. The restoration of the grassy areas will be paid under the items of Topsoil, Fertilizer, and Sod.

27. Traffic Signals, General.

Perform all traffic signal work in accordance to the plans and execute as specified in the standard specifications, standard specs 651 through 670, and these special provisions.

All poles, arms, transformer bases, pedestal bases, traffic signal standards, traffic signal face housings, pedestrian signal face housings, pedestrian push button housings, and signal mounting hardware, including banding straps shall have an exterior weather-resistant, material appropriate black finish (RAL 9017). All new cabinets shall be silver gray unpainted per WISDOT Standard Detail Drawing Signal or Lighting Control Cabinet. Payment for black finish on all steel Poles Type 3 shall be paid for under bid item "Powder Coating Steel Traffic Signal Poles Type 3". Payment for black finish on all other traffic signal equipment shall be incidental to the appropriate standard bid item.

Work items shall be considered incidental to construction if not specifically listed on the unit price schedule, including, but not limited to removal of existing conduit and pull boxes that are not being salvaged or reused.

Traffic signal wire and street lighting wire should not be placed in the same conduit, nor shall conduit or wire from the signal/ interconnect and streetlight systems intersect in the same pull box. The two systems shall be completely separate.

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

Deliver additional traffic signal poles, classified as undistributed, to the City of Beaver Dam Public Works Garage at 640 S. Center Street. Contact Jeremy Klug at the City of Beaver Dam at (920) 887-4635 at least five working days prior to delivery.

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

28. Install Conduit Into Existing Item, Item 652.0700.S.

A Description

This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials

Use Conduit Rigid Nonmetallic Schedule 40 (Size) or Conduit Loop Detector, as indicated in the plans and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for the entering conduit(s) at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

The department will measure Install Conduit Into Existing Item by each individual unit, acceptably completed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits

entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|------------------------------------|------|
| 652.0700.S | Install Conduit Into Existing Item | Each |

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

29. Street Lighting General.

The work includes labor, material, equipment, utilities, transportation, and equipment to install ornamental street lights, bases, pedestals, wiring, conduits, etc., ready to use and acceptable to the City of Beaver Dam. The contractor is expected to visit the site and examine the existing electrical service equipment prior to submitting a bid for this work. The street lighting work shall include all wiring and equipment required to properly install a complete working system. The intent of the drawings and specifications is to obtain a complete street lighting system; tested, adjusted and ready for operation. Incidental data not usually shown or specified, but necessary for proper installation and operation, shall be included.

The work shall conform to the latest editions of the National Electrical Code. Any lighting or electrical permit required for this work shall be obtained, and fees paid, by the contractor prior to commencing work and shall be incidental to the work.

The contractor shall check, verify, and coordinate his work with drawings and specifications for other trades under this contract. All modifications, relocations or adjustments necessary to complete work or to avoid interference with other trades shall be included. Information given herein and on drawings is as exact as could be secured but is not guaranteed. Do not scale drawings for exact dimensions.

All tests required by the Code shall be completed prior to energizing the circuits. The contractor shall be present at the time the circuits are energized. Any failures detected upon the application of electrical current shall be immediately corrected by the contractor.

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

A Description

This special provision describes conducting a crack and damage survey of the residences and businesses located at all properties adjacent to and within the project limits.

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

B (Vacant)

C Construction

Prior to any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Submit a written report of the inspector's name, date of inspection, descriptions and locations of defects, and photographs. The intent of the written report and photographs is to procure a record of the general physical condition of the building's interior and exterior walls and foundation. The report shall be typed on bond paper and be in text form.

The photographs shall be taken by a professional photographer capable of producing sharp, grain free, high-contrast colored pictures with good shadow details. The photographs shall be 3½ inch by 5 inch color prints, glossy, and mounted in protective storage pages with clear slip-in pockets and clear background. Each sheet shall hold four prints. The back of each photograph shall contain the following information:

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

Prior to the start of any construction activities pertinent to this survey, submit a copy of the written report and photographs to the engineer.

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

In lieu of photographs, a professional videographer may be hired to use a video camera capable of producing a video with the clarity required to perform this work.

D Measurement

The department will measure Crack and Damage Survey as single complete unit of work.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|-------------------------|------|
| 999.1500.S | Crack and Damage Survey | LS |

Payment is full compensation for providing the before and after written reports, and for photographs or video.
999-010 (20130615)

31. Backfill Dense Base, Item SPV.0035.01.

A Description

This special provision describes furnishing and placing backfill dense base as shown on the plans and as hereinafter provided.

B Materials

Provide 1 1/4-Inch gradation base aggregate dense produced from crushed stone in accordance to the requirements as specified under standard spec 305.2.

C Construction

Construct the backfill dense base in accordance to standard spec 206.3.13.

D Measurement

The department will measure Backfill Dense Base in volume by the cubic yard in the vehicle, 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 | Backfill Dense Base | CY |

Payment is full compensation for furnishing and installing the aggregate.

32. Temporary Crosswalk, Item SPV.0045.01.

A Description

This special provision describes providing and maintaining an ADA accessible temporary crosswalk within the construction zone at various locations throughout the project limits. A crosswalk is defined as an ADA compliant accessible crossing of a single leg of an intersection, including curb ramps.

B Materials

Furnish a hard temporary surface material consisting of asphaltic surface temporary in accordance to standard spec 465.2, any grade of concrete in accordance to standard spec 602.2, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable.

Furnish and install safety fence to delineate the appropriate pedestrian crosswalk location.

Furnish 4-inch diameter polyvinyl chloride drainage pipe conforming to AASHTO M 278 as needed to maintain drainage across the location of the crosswalk.

Furnish a protective layer for use in protecting the existing curb and gutter and existing pavement from asphaltic surface temporary in order to allow easy removal of asphaltic surface. Obtain approval from the engineer for the protective layer material.

C Construction

Maintain an accessible crosswalk on existing pavement, new pavement, or temporary surface material where shown on the plans or directed by the engineer.

C.1 Crosswalk

Install, maintain, relocate (if necessary to accommodate work or operations), and remove temporary surface material at Temporary Crosswalk location as shown on the plans and as directed by the engineer. Level and compact the base material prior to placing temporary surface material. The Temporary Crosswalk shall have a minimum clear width of 5 feet; be located outside the immediate work area, as approved by the engineer; and meet the requirements of the current Americans with Disabilities Act Accessibility Guidelines (ADAAG). Install safety fence along both sides of the temporary crosswalk. Provide a gap in the safety fence to provide access for construction and emergency vehicles across the temporary crosswalk. The maximum width of the gap shall be 18 feet. Reconstruct Temporary Crosswalk when disturbed by construction operations or utility trenches.

C.2 Temporary Curb Ramp

Place 4-inch PVC drainage pipe in the flow line of the curb and gutter to maintain storm water drainage.

Place a protective layer between the existing curb and gutter or existing pavement and the asphaltic surface or concrete for temporary curb ramp.

For the portion of the temporary curb ramp in the terrace area, form the foundation by excavating at least 3 inches. Tamp or compact the foundation to ensure stability.

Place asphaltic surface temporary in accordance to standard spec 465.3.1 or place concrete in accordance to standard spec 602.3.2.3, and as shown in the plan.

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

Remove temporary curb ramps as soon as permanent curb ramps and crosswalks are open and restore the site.

D Measurement

The department will measure Temporary Crosswalk by the day, acceptably in service for each location. The measured quantity will equal the number of calendar days an acceptable and accessible temporary crosswalk through the work area is open to pedestrian traffic. A crosswalk is defined as an accessible crossing of a single leg of an intersection with existing, temporary, or finished curb ramps meeting ADA requirements. Each day that the

crosswalk is out of service for more than 2 hours will result in 1 day being deducted from the quantity measured for payment.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---------------------|------|
| SPV.0045.01 | Temporary Crosswalk | Day |

Payment is full compensation for providing and installing the required materials; for preparing the foundation; for furnishing, placing, maintaining, and removing temporary surface material; for reconstructing or relaying the temporary surface material; and for furnishing, installing, and maintaining safety fence.

33. Seismograph Special, Item SPV.0045.02.

A Description

Furnish a seismograph and employ trained operators to continuously monitor building vibration.

B Materials

Use seismographs that are in accordance to SPS 307.43, and are continuous data recorders supplied with all the accessories necessary for making seismograph observations.

C Construction

Monitoring procedures shall be in accordance to SPS 307.43, and the following: Take seismograph readings prior to construction actives to establish an ambient index.

Place the seismograph to continuously monitor all construction activities or as direct by the engineer. If construction activities generate ground vibration in excess of the Peak Particle Velocity Limits as shown in SPS 307.43, stop the construction operations in progress and consider and implement alternate construction methods.

D Measurement

The department will measure Seismograph Special by the day of completed work.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---------------------|------|
| SPV.0045.02 | Seismograph Special | Day |

Payment is full compensation for furnishing and operating a seismograph, an operator, and accessories; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

34. Decorative Luminaire, Item SPV.0060.01.

A Description

Furnish and install decorative luminaires for lighting at the locations as shown on the plans, in accordance to the requirements of the plans, the standard specifications, and as hereinafter provided.

B Materials

The lighting assembly shall be:

Sternberg Lighting
555 Lawrence Avenue
Roselle, IL 60172
Telephone: (847) 588-3400
Website: www.sternberglighting.com

Model Number (160W-LED luminaire) = 1-1521RLED/FLD/AHS-S/10ARC45T3

Furnish and install the pole wiring, fusing, connections, and circuit tags in accordance to the standard detail drawing Non-Freeway Lighting Unit Pole Wiring.

C Construction

Assemble and install the lighting unit in accordance to the manufacturer's instructions. Install the lighting unit on Luminaire Arm Single Member 4-Inch Clamp 6-FT (657.0609). Provide pole wiring and all necessary miscellaneous materials required for a complete operating lighting unit.

D Measurement

The department will measure Decorative Luminaire, by each individual unit, acceptably completed and approved by the City of Beaver Dam.

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 | Decorative Luminaire | Each |

Payment is full compensation for furnishing, installing and connecting for service.

35. Traffic Signal Controller and Cabinet, Fully Actuated 8-Phase, Item SPV.0060.02.

A Description

- (1) This special provision describes furnishing and installing traffic signal controllers as shown on the plans and as hereinafter provided.

- (2) Submit a Certification of Compliance from the signal vendor, the contractor or the company that wired the cabinet certifying that the cabinet and equipment as furnished, conform to the plan and specifications. Ensure that the certificate of compliance is on the letterhead stationery, signed by an authorized officer of the company, and notarized. Submit a copy to the engineer, and the SPO Manager at the department's Regional Office.
- (3) It is the responsibility of the contractor or his designee that all functions within the controller, cabinet, switches, and other timing parameters, and that all electrical and electronics components are in proper working condition. In addition, it is the responsibility of the contractor or his designee to ensure it meets the plan and the specifications, and shall demonstrate this to the engineer or his designee at the field location.
- (4) After mounting the cabinet on the cabinet foundation, connect all the field wiring inside the controller cabinet and test the signal circuits for correct operation. Connect and test the signal circuits outside the controller cabinet as directed by the engineer. Connecting and testing signal circuits shall be considered part of this item of work.
- (5) The delivered cabinet at the intersection shall perform in accordance to the standard specifications, the plan details, and special provisions once the field wiring is connected. It shall also be the responsibility of the contractor to have the person responsible for wiring the cabinet present at the location when the field wiring is connected to the cabinet wiring. In addition, the contractor assumes liability for any damage or damage due to malfunctions or improper wiring.
- (6) The controller shall be a **Siemens M50 series model EPAC3108M52** fully traffic actuated, solid state, digital microprocessor controller, capable of providing the number and sequence of phases, overlaps, and any special logic as described herein and shown on the accompanying plan. The controller shall also include a fiber optic modem and multi-mode interconnect. At the Front Street and Center Street intersection, the controller shall also include a **MARC360** with multi-mode modem as this controller will serve as the master controller of the network.
- (7) The controller shall be fully programmed and shall be mounted in a control cabinet to operate as a complete and functioning intersection traffic signal control system. The equipment items included shall be, but not necessarily limited to, cabinet, microprocessor controller, monitor, detector amplifiers, power supply, power distribution panel, interior cabinet wiring, and other associated electrical and electronic equipment interior to the control cabinet that is necessary to provide the type of operation described in these specifications.
- (8) Dual ring, programmable for both single and dual entry concurrent timing, eight-phase frame or equivalent shall be provided. Volume density and pedestrian timing shall be provided for all phases. MUTCD flashing capability shall be provided. All controls shall

be in accordance to the accompanying plans and with NEMA Standards Publication No. TSI-1976 including Revisions No. 1 and No. 2.

- (9) The intersection controller unit shall be capable of up to 8-phase operation plus four (4) programmable overlaps regardless of whether preemption, coordination or the special programming is used. Wire the intersection cabinet for a minimum of twelve and include six 3-circuit load switches.

B Electrical and Operational Aspects

B.1 Buffering

- (1) Internally buffer all logic circuit inputs to withstand transients and noise, such as might result from normal usage, without damage to any mechanism components.

B.2 Timing Features

- (1) All controller timing parameters shall be fully programmable from the front panel using switches and/or keyboard inputs, and memory storage features shall be nonvolatile under power off conditions for at least 30 days. The locking, nonlocking detection mode and recall switches shall also be accessible on the front panel.

B.3 Minimum Green Timing

- (1) The passage timer shall time concurrently with the minimum green timer, so that the duration of the minimum green time is directly adjustable and is independent of the passage time setting.

B.4 Dual Ring Timing

- (1) In the dual ring application, no more than two phases shall be permitted to time concurrently, and no more than one phase per ring. The controller shall provide barrier protection against concurrent timing of two conflicting phases; no phases assigned to one side of the barrier shall be permitted to time concurrently, if a conflict will occur. The controller shall service calls on a single entry basis, and both rings shall cross the barrier simultaneously in accordance to the following logic: (a) Phases timing concurrently shall terminate simultaneously if both have a gap out due to excessive time between actuations. (b) Phases timing concurrently shall terminate simultaneously if both have a maximum time out. (d) In the event that one phase has not achieved a gap out or maximum time out, the other gapped out phase shall be permitted to leave the gapped out condition and retime an extension when an actuation is received.

B.5 Manual (Police) Control

- (1) If manual control is used, actuation of the manual control shall permit manual advance of the Walk, Pedestrian Clearance, and Green interval terminations only. Manual termination of Yellow or All Red clearance intervals shall not be permitted.

B.6 Red Revert

- (1) Provide an adjustable red revert control to assure adequate red display when recycling a phase during call-away or red rest mode operation. A call for service to a different phase shall be preceded by an all-red clearance interval, as programmed.

B.7 Coordination

- (1) The controller shall be capable of operation in progressive coordination systems and mutual coordination and shall contain, but not be limited to, the following external inputs, with all functions brought out:

| | |
|--|-----------------------------------|
| Vehicle/Pedestrian Detectors per phase | Pedestrian Omit per phase |
| Phase Omit per phase | Hold per phase |
| Omit Red Clearance per ring | Internal Maximum Inhibit per ring |
| Maximum II per ring | Red rest per ring |
| Stop Timing per ring | Force-Off per ring |
| Select Minimum Recall per controller | Manual Control per controller |
| Semi-Mode per controller | External Start per controller |

B.8 Minimum Safe Timings Control

- (1) Controllers shall not accept any operator input or stored timing parameters that would result in intervals shorter than the following: yellow clearance - 3.0 seconds; minimum walk - 4.0 seconds; minimum pedestrian clearance - 6.0 seconds. At the beginning of each of the above intervals, the controller shall check the previously stored data against these minimums. If an operator attempts to load an incorrect timing parameter, the controller unit shall output a unique error code on the front panel display. As an alternate to minimum timing control, a coded keyboard entry security feature may be provided.

B.9 Indicator Lights and Switches

- (1) Provide indicator lights to show the status of each signal phase on. Indicator lights shall also be used to show interval status, phase termination information, and presence of vehicular and pedestrian calls for each phase. Also provide an indicator light to show the status of the backup battery charging circuit.
- (2) The controller shall have an on off switch and fuse for AC power.

B.10 Data Display

- (1) If keyboard entry is supplied, the front panel shall contain a display panel consisting of LED display characters. The face of the display shall be scratch, chemical, and solvent resistant. In the case of writing data or parameters into the controller, there shall be a visual indication that the data has been accepted. The number of characters shall be adequate to read or write all data and parameters in decimal format together with a data descriptor in either alpha numeric format, or thumbwheel switch display.

B.11 Diagnostic Program

- (1) A diagnostic program shall be prepared by the manufacturer of the controller unit that will demonstrate the proper operation of all the inputs, outputs, controls and indicators in the controller, and shall have visual conformation on the front panel. The diagnostic program shall be either resident in the controller or furnished as a separate plug in module. A flow chart and listing of the diagnostic routine shall be furnished with the controller unit.

B.12 Maintenance of Controller

- (1) For ease of service, the controller shall be divided to a minimum of the following separate circuit boards:
 1. CPU/Memory
 2. Input/Output
 3. Front Panel
 4. Power Supply
- (2) Each board must be easily removable without requirements for special tools.
- (3) The microprocessor supplied shall be the type that has a Fluke Pod that is compatible.
- (4) All electronic components must be removable by a PACE (model PPS-5) solder station and all integrated chips over 20 pins must be on sockets.

C Monitoring

- (1) Provide a NEMA PLUS monitor with all components and circuitry, independent to the controller and having the capacity to handle a minimum of 12 channels. The monitor shall detect conflicting indications, controller voltage drops, and the absence of reds as follows:
 1. Conflicting indications shall cause the monitor to place the intersection in a flashing mode of operation. The monitor shall maintain the flashing mode until manually reset, regardless of 110 VAC power to the conflict monitor.
 2. The +24 VDC cabinet power source shall be monitored by the conflict monitor. If that voltage drops to an unsatisfactory level, the monitor shall cause the controller to revert to flashing mode. Upon resumption of normal voltages, the controller shall resume normal stop and go operation without the necessity of manual resetting.
 3. The absence of any required red signal voltage at the field connection terminals in the controller assembly shall cause the monitor to place the intersection in a flashing mode of operation. The monitor shall maintain the flashing mode until manually reset.
 4. After power interruption (exceeding 457 +/- 25 milliseconds) to the controller assembly a flashing period (4 to 10 seconds adjustable) shall precede the start up (initialization) sequence. This feature can be resident in either the monitor or the controller.
 5. The flash circuit shall be wired in a failsafe manner so that the intersection will revert to and remain in flashing mode whenever and for as long as either the controller mechanism or the monitor is disconnected.
 6. Indicator lights shall be: a) an indicator for each channel shall be provided with latch status of failure, b) +24V light inputs, c) conflict light, d) conflict monitor power light and program board ajar light, e) power interrupt after failure light, f) red failure light.

7. G or W vs. Y signals on the same channel: This function shall be enabled on a per unit basis. When enabled, the conflict monitor shall be capable of monitoring for green or walk versus yellow indications active on one channel. It shall be recognized as a failure if the condition exists for 850 +/- 150 milliseconds. This failure shall always be considered a latched failure when enabled.
8. G, W, or Y vs. R signals on the same channel: This function shall be enabled on a per channel basis. When enabled, the conflict monitor shall be capable of monitoring for green or walk or yellow versus red indications active on one channel. It shall be recognized as a failure if the condition exists for 850 ±150 milliseconds. This failure shall always be considered a latched failure when enabled.

D Terminal Facilities

- (1) Terminal facilities shall consist of all devices external to the controller unit that are necessary to complete the intersection control. Terminal facilities supplied shall be protected by dual 30-amp circuit breakers. The dual 30-amp breakers shall feed an evenly split signal bus supplied through bus relays and radio interference line filters. Bus relays, in all cases, shall be mercury type contractors and shall not be jack mounted. Terminal facilities shall also include applicable load switch panels of sufficient capacity to accommodate 8 vehicle phases, 4 pedestrian phases, and 4 overlap phases and shall include a minimum of 6 solid state 3 circuit load switches with visual indicators. Flash transfer relays and two double circuit flashers shall also be provided. The internal wiring in the load switch panels shall be insulated wiring of sufficient size or the individual outputs fused so that the wiring will not be damaged by shorted output light circuits. Printed circuits in the load switch panels will not be acceptable.
- (2) Use terminal strips to terminate controller cable, signal head cables and vehicle and pedestrian detector cables. Terminate all controller inputs and outputs on an interface panel. All interface and output terminal connections shall be the screw down type.
- (3) Fuse all interconnect terminal facilities to incoming lines.

E Cabinet Switches

- (1) Locate the following switches inside the cabinet on a maintenance panel:
 - a. Controller On/Off
 - b. Cabinet Light
 - c. Stop Time (Three Position)

| POSITION | LABEL SWITCH | FUNCTION |
|-----------------|---------------------|--|
| Upper | Stop Time | Place stop time on the controller |
| Center | Run | Remove the stop time input to the controller |
| Lower | Normal | Connects the Monitor to the controller stop time input |

- (2) Provide switches for all vehicle phases and all even pedestrian phases.

- (3) Locate the following switches behind the Police access door:
- Signal/Off
 - Flash/Normal
- (4) The above switches shall function as follows:
- | | | |
|--------|----------------|--------------|
| Signal | | Off |
| Flash | Signals Flash | Signals Dark |
| Normal | Signals Normal | Signals Dark |
- (5) Manual Detector Operation. Provide three position switches external to the controller that will permit manual detector calls and manual detector disconnect for each phase independently. The switches shall be spring loaded and shall rest in the center (non-operative) position. The switches shall be appropriately labeled and shall operate as follows:
- | | | |
|------------------|---------------------------|------------------------------------|
| Upper Position: | Spring loaded: | Disconnect detector |
| Center Position: | Normal detector operation | |
| Lower Position: | Spring loaded: | Test call is placed to controller. |

F Cabinet and Cabinet Equipment

- Furnish the controller completely housed in a door-in-door ground mounted (without anchor bolts) metal cabinet of minimum size 1115 mm wide, 685 mm deep, and 1495 mm high.
- Provide a cabinet of clean-cut design and appearance. The size of the cabinet shall be such as to provide ample space for housing the controller, and all of the associated electrical devices which are to be furnished with the controller, together with any other auxiliary devices herein specified.
- All cabinets shall have the following:
 - A 15-amp circuit breaker for auxiliary equipment.
 - A 2-pole 20-amp circuit breaker for street lighting, photo eye, and contactor.
 - A valve type surge protector, as manufactured by Joslyn, catalog #L9200-10; General Electric, catalog #9L15DCB002; or approved equal, shall be mounted internally within the traffic signal cabinet and shall be connected across the load terminals of the circuit breakers. A General Electric Varistor, catalog #V130PA20A, shall be installed at the load terminals of each circuit breaker from the hot line to the grounded current carrying neutral conductor.
 - Incandescent light socket.
 - Solid state jack mounted NEMA flasher(s) with visual indicators and completely wired base, rated for at least 10 amps per circuit at 74 degrees C.
 - Control switches, including controller power switch, stop time switch, cabinet light switch, and emergency flash switch.
 - All switches specified in Section C-8 and F.
 - Necessary fuses and circuit breakers.

9. All wiring harnesses including detector harnesses. Loop detector harness connector shall be MS-3106B018-IS fully wired terminals I and J which shall go to separate isolated terminals. One loop harness shall be provided for each of the phases (i.e. 01 - 08).
 10. **Duplex power receptacle.** A 120 VAC 20 amp, NEMA 5-20R GFI convenience outlet shall be mounted in each cabinet for energizing equipment or tools. The outlet shall be fuse protected.
 11. **Radio interference filter.** Each control cabinet shall be equipped with a single radio interference suppressor of sufficient ampere rating to handle the load requirements. The RIS shall be installed at the input power point. It shall minimize interference in both the broadcast and the aircraft frequencies, and shall provide a maximum attenuation of 50DB over a frequency range of from 200KHZ to 75MHZ, when used in connection with normal installations. The radio interference suppressor shall be hermetically sealed in a substantial metal case that shall be filled with a suitable insulating compound. The terminals shall be nickel-plated brass studs of sufficient external length to provide space to connect two No. 8 AWG wires and shall be so mounted that they cannot be turned in the case. Ungrounded terminals shall be properly insulated from each other, and shall maintain a surface leakage distance of not less than 6.35 mm between any exposed current conductor and any other metallic parts. The terminals shall have an insulation factor of 100-200 megohms dependent upon external conditions. The RIS shall not be rated less than 35 amperes. The RIS shall be designed for operation on 115 VAC +/- 10%, 60HZ, single-phase circuits, and shall meet the standards of UL and Radio Manufacturer's Association.
 12. **Cabinet grounding.** In all controller cabinets and auxiliary cabinets, the AC common, the logic ground, and the chassis ground shall be isolated from each other the same as detailed by NEMA Standard.
 13. **Suppressors.** Each 120 VAC circuit that serves as inductive device, such as a pan motor or a mechanical relay, shall have a suppressor to protect the controller's solid state devices from excessive voltage surges. Such suppressors shall be in addition to the surge protector at the input power point.
- (4) All conductors in the cabinet shall be number 22 AWG or larger, with a minimum of 19 strands, and conforming to military specifications, Mil-W-16878D, Type B or D, vinyl nylon jacket, 600 volt, 105 degree C. All cabinets shall be factory wired.
 - (5) The cabinet shall provide weather protection and forced ventilation, air filters and heaters, with adjustable thermostat switches, and comply with the environmental and operating standards outlined in NEMA Specification TSI-1-1976. The cabinet shall provide reasonable vandalism protection. Provide access doors that have latches and a Corbin lock, dust cap, and key change IR6380. The small door shall be provided with standard police locks. The heater supplied shall have adjustable thermostat setting which varies from 0 degrees to 40 degrees Celsius.
 - (6) **Forced Ventilation.** Ventilate the controller cabinet containing solid-state equipment by means of a 120 VAC, 60HZ, tube axiac compact type fan. The fans free delivery airflow shall be greater than 2.83 cubic meter per minute. The magnetic field of 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 7 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 32 to 49 degrees Celsius. The fan shall run until the cabinet temperature decrease to approximately 17 degrees C. below the turn on temperature setting. The fan shall be fused.

- (7) Provide metal shelves to support the controller and external equipment. The controller shall be located on the top shelf and not less than 965 mm above the bottom of the cabinet. There shall be a minimum of 250 mm vertical height for detector units.
- (8) Locate buss and flash transfer relays, flashers, load switches, circuit breakers, and interference filters on a standard panel consistent with the intersection plan. Design shall facilitate field inspection and maintenance accessibility without excessive disassembly or special tools.
- (9) Prime all inside and outside surfaces of the cabinet inside and outside surfaces with phosphate treatment and primer. After priming, give all exterior surfaces a minimum of 2 coats of rust resistant silver grey enamel; interior surfaces shall be furnished with rust resistant high gloss white enamel.
- (10) Neatly fold and cap any cables, wires or circuits that are not being used. These wires shall be neatly tied and stowed away in or on the terminal facilities.
- (11) Terminal facilities arrangement shall be in a fashion so that trouble shooting of load bay or behind the load bay can be accomplished with simple tools. This means that the load bay will be hinged so that it can be dropped down for ease of maintenance. There will be sufficient slack in the load bay wiring to allow for dropping the load bay.
- (12) Protect all control cables, i.e., detector harnesses, controller harnesses, harnesses which connect manual/vehicle detector switches, by a nylon jacket or provide equivalent protection to prevent any contact with cabinet metal shelves, doors and any other sharp corners.
- (13) If any branch circuit wiring or control wiring does not conform to the wire specifications, the supplier will be considered as not meeting the specifications and proper corrective action will be exercised against the supplier.
- (14) Provide a 4 input PED isolation circuit to isolate controller logic ground from the field wiring. Outputs from the PED isolator shall be connected to phases 2,4,6,8.

G Solid State Load Switches

- (1) Load switches shall meet the requirements of NEMA TSI-Part 5 for three circuit load switches.

- (2) Each load switch shall contain three individually replaceable, molded case, solid state relay modules. Each relay module shall utilize optical isolation between the control and the load circuits. The module shall have the functions and terminal assignments as specified in NEMA TSI-Part 5.
- (3) Each panel of load switches shall either be rack mounted or shall have a switch support bracket extending across the entire length of the switch panel.
- (4) The load bay arrangement from left to right in the cabinet shall be as described below:
 1. Vehicular Phasing shall be groups first - 01, 02, 03, 04, 05, 06, 07, 08.
 2. Pedestrian Phasing shall be followed second - 02, 04, 06, 08.
 3. Any other special phasing shall be grouped last.

H Equipment List and Drawings

- (1) Submit detailed shop drawings of the control cabinet, equipment layout drawings and wiring diagrams of all equipment installed in the controller cabinet to the department for approval. Two sets of cabinet wiring diagrams shall be contained in a heavy duty clear plastic envelope mounted on the inside of the front door.
- (2) At the time of delivery, furnish one set of instruction manuals and an itemized price list for each type of equipment, their subassemblies, and their replacement parts. The instruction book shall include the following information: a) Table of Contents, b) operating procedure, c) step-by-step maintenance and troubleshooting information for the entire assembly, d) circuit wiring diagrams, e) pictorial diagrams of parts locations, f) parts numbers, and g) theory of operation. The instructional manuals shall include itemized parts lists. The itemized parts lists shall include the manufacturer's name and parts number for all components (such as IC's, diodes, switches, relays, etc.) used in each piece of equipment. The list shall include cross references to parts numbers of other manufacturers who make the same replacement parts.

I Supplier Warranty

- (1) The contractor shall certify that the equipment meets the required specification and shall supply a complete catalog description. The following documents shall also be provided.
 1. A warranty statement that stipulates that equipment to be supplied shall be warranted for two years from the date of purchase.
 2. Operations manuals.
 3. Maintenance manuals.
 4. Schematic diagrams.
 5. Component and equipment locations within the cabinet.
- (2) If a malfunction in the controller unit, or its auxiliary equipment occurs during the warranty period, the supplier shall, within 24 hours after notification (excluding Saturday and Sunday), furnish a like controller unit module, or auxiliary equipment, for use while the warranted unit is being repaired. The isolation of any malfunction during the warranty period shall be the responsibility of the supplier. After the supplier has repaired

and returned the equipment, the department shall then return the spare component to the supplier.

J Preemption

J.1 General

- (1) These specifications detail a preemptor program for use with 2 through 8-phase-actuated controller.
- (2) The preemptor shall be capable of being adaptable to meet the various types of applications such as railroad, fire station, and bridge preempts.
- (3) The preemptor shall be internal to the controller and shall not alter controller capability or interchangeability under normal operation. The preemptor shall be completely programmable by the user.

J.2 Preempt Program

- (1) Preempt Registration. The preempt call input shall initialize preempt registration and start preempt sequence unless a priority call input is activated which would treat the current controller preemptions state as normal operation and reinitiate call registration.
- (2) Preempt Delay. As soon as the preempt call is registered the preempt delay will begin timing unless preempt delay is set zero or preempt delay omit was active during preempt call registration. Delay shall be programmable from 0 to 255 seconds minimum.
- (3) As soon as preempt delay is timed out, current running phases not next to be common in preempt sequence are cleared. If the running phases are green and must be cleared, special programmable values of minimum green, walk and pedestrian intervals will time normal times. Concurrently a special preempt clearance is generated. This clearance is designed for advance track signals and any overlaps that may be green and require yellow clearance.
- (4) Entry Clearance Phase(s) Select. Two sequential phases or phase pairs shall be available to be run as programmable fixed time intervals as an entry sequence. Two entry options shall be available, each programmable. The entry sequence shall be capable of being omitted entirely.
- (5) Dwell Sequence. After the entry sequence, the preemptor shall enter the dwell sequence. During the dwell sequence the controller shall cycle between selected phases on a pre-timed or actuated basis. Pedestrian phasing may be normal or omitted entirely. When the dwell sequence is entered, a preempt dwell output shall be generated. The preemptor shall remain in dwell for the length of the dwell extension timer which shall be capable of being held in reset by the preempt call input. Dwell extension shall be omissible by setting the timer to zero.

- (6) Exit Sequence. After leaving dwell, the controller shall enter one or two programmed exit phases(s) or phase pairs sequences. The sequence will time programmed minimum green and place a vehicle call on all phases not omitted. After timing exit phase minimum green the controller shall time and sequence normally.

K Time Base Coordination

- (1) These specifications detail a Time Base Coordinator program for use with 2 through 8-phase actuated controller.
- (2) The units shall allow traffic control equipment to be coordinated without requiring the use of interconnection cables. The units shall coordinate traffic control equipment based on signals from a precise time base which will allow output control signals to be changed at the proper pre-programmed time to achieve the coordinated operation of an intersection with other intersections or the desired operation of an isolated intersection. The coordinators may also used a programmer for a master intersection controller which in turn is interconnected with secondary intersection controllers. The units shall also be capable of providing a command for MUTCD flash, and shall allow a full year program to be initiated and carried out without the necessity of field adjustment for anticipated special events, etc.
- (3) The time base coordinator shall be internal to the controller and shall not alter controller capability or interchangeability under normal operation. The time base coordinator shall be completely programmable by the user.

L Loop Detector Amplifiers

L.1 Materials and Construction Methods

- (1) All loop detector amplifiers supplied shall be two channel shelf-mounted units with digital output timing, and sequential scanning. The amplifier shall operate in compliance with all the requirements specified herein, when connected to an inductance loop plus lead-in of from 0 to 1000 microhenries with a loop parameter as low as 5.0 at the amplifiers operating frequency.
- (2) Each channel shall be self-tuning and shall be fully operational within one minute after power up. After a power interruption, the channel shall automatically return to normal operation. Two conventional single channel front panel mounted MS3102a18-1P connectors for each amplifier shall be provided.
- (3) Each channel shall have a fail-safe design such that if the loop sensor circuit is broken, the channel shall output a continuous vehicle call.
- (4) Couple the loop sensor to the channel input circuitry through isolation transformers. This arrangement shall provide continued operation of the channel even if the loop sensor in the street develops resistive leakage or becomes grounded.

- (5) Provide lightning protection for each amplifier as an integral part of its own circuitry. The protection shall enable the detector to withstand the discharge of a 10 microfarad capacitor, charged to ± 1000 volts. The discharge shall be applied directly across the detector loop input pins with no loop load present. The protection shall also enable the detector to withstand the discharge from a 10 microfarad capacitor, charged to 1 to 2000 volts. The discharge shall be applied directly across either the detector loop input pins or across either side of the loop input pins to earth ground. For this test, the detector chassis shall be grounded and the detector loop input pins shall have a 5.0 ohm dummy resistive load connected across them.
- (6) The detector circuits shall be so designed that changes due to environmental drift and applied power shall not cause an actuation. The detectors shall be capable of compensating or tracking for an environmental change of up to but not exceeding 1×10 minus 3% charge in inductance per second. This requirement must be met within two hours after initial application of operating power.
- (7) Each detector channel shall have a minimum of three sensitivity settings and these shall be front panel selectable. The most sensitive setting shall respond to an inductance change of 0.02%. The least sensitive setting may be chosen by the manufacturer such that accurate and repeatable occupancy measurements may be obtained. This setting must cause the detector channel to respond to a 0.14-0.4% charge in inductance.
- (8) Each detector channel shall have a front panel mounted indicator to provide a visual indication of each vehicle detection. A detector channel shall not cross talk with any other channel within the same module.
- (9) The unit shall operate over input voltage from 95VAC to 135VAC and shall neither originate nor be sensitive to electrical transients in excess of proposed NEMA standards. Provide varistors between power lines to limit transient voltages.
- (10) Provide extension and delay timing for each channel independently as described below:

L.2 Delay Timing

- (1) Delay detector output for selected interval of 1 to 30 seconds in 1-second increments. Each new detection restarts the delay timer.

L.3 Extension Timing

- (1) Extends vehicle calls up to 7.75 seconds in 0.50 second increments.

L.4 Green Gating

- (1) Green signals from the controller shall be wired to the detector to modify timing functions. When green is true, delay timing is disabled. When green is false, extension timing is disabled. The green input signals may be DC or direct line voltage AC.

L.5 Smart Indicators

- (1) Normal indicator operation is provided when neither timer is active. Delay and extensions are distinguished by 4 hertz and 16 hertz flashing respectively.
- (2) Provide the necessary Loop Detector Amplifiers as required on the plan.

M Controller Operation

- (1) Consistent with customary trade practices, the manufacturer shall furnish a warranty for all electrical or mechanical equipment described herein. The contractor shall turn such warranty over to the owner for potential dealing with the guarantor.
- (2) If the contractor is the guarantor, he specifically waives the requirements of Section 289.14(2), Wisconsin Statutes, and agrees as a condition of the contract that the owner may maintain an action against him at anytime during the warranty period for recovery of damages which the state may have sustained by reason of the failure of the contractor to comply with the provisions of the warranty provided to the owner.
- (3) During the installation and testing of the controller, the contractor shall provide, at his own expense, a competent representative to oversee, direct and manage the installation and testing of the controller. In the final stages of the installation and testing, the manufacturer's representative shall be available at the job site for consultation until such time as the controller operation is tested and accepted.
- (4) If a malfunction in the controller unit or its auxiliary equipment occurs during the warranty period, the supplier shall, within 24 hours after notification (excluding Saturday and Sunday), furnish a like controller unit, module, or auxiliary equipment, for use while the warranted unit is being repaired. The isolation of any malfunction and the repair and/or replacement of any device within the warranty period shall be the responsibility of the supplier. After the supplier has repaired and returned the equipment, the county shall return the spare component to the supplier.

N Measurement

- (1) The department will measure Traffic Signal Controller and Cabinet, Fully Actuated 8-Phase, as each unit of work, acceptably completed in accordance to the contract.

O Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---|------|
| SPV.0060.02 | Traffic Signal Controller and Cabinet, Fully Actuated 8-Phase | Each |

- (2) Payment is full compensation for furnishing and installing the signal controller and conflict monitor together with cabinet, switches for flashing operation, and fittings as are necessary to assure that the controller will perform the said functions.

36. Utility Line Opening (ULO), Item SPV.0060.04.

A Description

Perform the necessary excavation to uncover utilities for the purpose of determining elevation and potential conflicts with proposed underground facilities, as shown on the plans or as directed by the engineer.

B (Vacant)

C Construction

Perform the excavation in such a manner that the utility in question is not damaged and the safety of the workers is not compromised.

Perform the utility line openings 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. Prior to ordering structures, perform ULO's. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening is 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.

Obtain prior approval for all utility line openings from the engineer and coordinate all ULOs with the engineer. Notify the utility engineers or their agents of this work a minimum of three days prior to the work so they may be present when the work is completed. Verify the need for performing ULO's as shown on the plans, since some of the utilities may have been or will be relocated prior to the start of construction.

D Measurement

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

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|----------------------------|------|
| SPV.0060.04 | Utility Line Opening (ULO) | Each |

Payment is full compensation for the excavation required to expose the utility line; backfilling with existing material removed from the excavation; compacting the backfill material; restoring the site; cleanup.

Existing pavement, concrete curb, gutter, and sidewalk removals necessary to facilitate utility line openings shall not be considered part of or paid for under Utility Line Openings, but are considered separate and measured and paid for separately as removal items. Replacement pavement, concrete curb, gutter, and sidewalk items shall also be considered separate from Utility Line Openings and will be measured and paid for separately.

37. Connection to Existing Electrical Circuit, Item SPV.0060.05.

A Description

Make connections for the new street lighting system as necessary to join with the existing street lighting system.

B Materials

Furnish materials as required to properly install a complete working system. Incidental items not usually shown or specified, but necessary for proper installation and operation, shall be included.

C Construction

This work includes connection of the new lighting circuits to the existing lighting circuit at the following locations.

1. At approximately Station 1+71, 25' left, install a new junction box. Connect the existing lighting circuit and conduit to the new junction box. This existing circuit runs north and west from this location to a single existing light assembly located on the south side of W. Maple Avenue. The intent is to connect the existing light fixture to the new lighting Circuit B at the new junction box.
2. At approximately Station 5+52, 50' right, install a new junction box (see traffic signal plans) for a common connection point of the feeds for the new street lighting equipment and the new traffic signal equipment (separate feeds). Currently there are two electrical circuits originating from the south and crossing the nearby bridge to bring electrical service to the existing street lights and the existing traffic signals. The intent is to utilize the existing electrical feed and connect to these two circuits by installing a junction box at the location of the existing conduits as they exit the north side of the bridge. There shall be a separate connection for the new traffic signal equipment and also a connection for the new street light equipment along N. Center Street at this location.
3. At approximately Station 8+83, 40' right there is an existing junction box that currently contains an electrical circuit for the existing street light system on Front Street. The intent is to connect the new electrical circuit for the street lights along the south side of Front Street to the existing electrical feed at this junction box.
4. At approximately Station 8+83, 40' right there is an existing junction box that currently contains an electrical circuit for the existing street light system on Front Street. The intent is to connect the new electrical circuit for the street lights along the north side of Front Street to the existing electrical feed at this junction box.

D Measurement

The department will measure Connection to Existing Electrical Circuit by the unit for each circuit connection, approved by the City of Beaver Dam, and acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--------------------------------------|------|
| SPV.0060.05 | Connection to Ex. Electrical Circuit | Each |

Payment is full compensation for providing all equipment and materials; and furnishing and installing all other materials to complete the installation of the lighting system.

38. Concrete Bases Type 5, Modified Item SPV.0060.06.

A Description

Construct a modified Type 5 base in accordance to standard spec 654 and as detailed in the plan.

B Materials

Furnish materials in accordance to standard spec 654.2

C Construction

Construct Concrete Bases Type 5, Modified in accordance to the plan details and standard spec 654.3. Install the anchor bolts as per the recommendations of the manufacturer for the decorative street lights.

D Measurement

The department will measure Concrete Bases Type 5, Modified by the unit for each base, approved by the City of Beaver Dam, and acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--------------------------------|------|
| SPV.0060.06 | Concrete Base, Type 5 Modified | Each |

Payment is full compensation for providing all materials; for excavating; backfilling and properly disposing of surplus material; for constructing; for removing; and restoring the work site.

39. Lighting Assembly Roadway Decorative 126W-LED, Item SPV.0060.07.

A Description

Furnish and install poles, luminaries, arms, and base covers, and install pole wiring and appurtenances for lighting at the locations as shown on the plans, in accordance to the requirements of the plans, the standard specifications, and as hereinafter provided.

B Materials

The lighting assembly shall be:

Sternberg Lighting
555 Lawrence Avenue
Roselle, IL 60172
Telephone: (847) 588-3400
Website: www.sternberglighting.com

Model Number (126W-LED luminaire, pole and mast arm) = 1-1521RLED/FLD/AHS-S/CA6/2024T7/8ARC45T3-MDL/GFI20-LPIUC/BK

Furnish and install the pole wiring, fusing, connections, and circuit tags in accordance to the standard detail drawing Non-Freeway Lighting Unit Pole Wiring.

C Construction

Assemble and install the lighting unit in accordance to the manufacturer's instructions. Install the lighting assembly on a concrete base and provide pole wiring and all necessary miscellaneous materials required for a complete operating lighting unit.

D Measurement

The department will measure Lighting Assembly Roadway Decorative, by each individual unit, in place, connected for service, approved by the City of Beaver Dam, 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.0060.07 | Lighting Assembly Roadway Decorative 126W-LED | Each |

Payment is full compensation for providing all equipment and materials; furnishing and installing all other materials to complete the installation of the lighting assembly.

40. Removing Base, Pole and Luminaire, Item SPV.0060.09.**A Description**

Remove existing light poles/arms, pole bases, and luminaires at the locations as shown in the plans and in accordance to standard spec 204.

B Materials

Use backfill material in accordance to standard spec 209.

C Construction

Carefully remove poles, arms, luminaires, and electrical wiring; backfill the resulting holes; and dispose of all materials outside of the right-of-way in accordance to standard specs 204 and 638.3. Deliver the poles, arms and luminaires to the City of Beaver Dam's

public works storage yard at the 640 S. Center Street, Beaver Dam, Wisconsin. Contact Jeremy Klug at (920) 210-6055 at least three working days prior to delivery.

D Measurement

The department will measure Removing Base, Pole and Luminaire by each individual unit, approved by the City of Beaver Dam, and acceptably completed.

E Payment

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|-----------------------------------|------|
| SPV.0060.09 | Removing Base, Pole and Luminaire | Each |

Payment is full compensation for removal, backfilling, delivering materials to the city, and for disposing of scrap material.

41. Sanitary Manhole Covers, Type J-Special, Item SPV.0060.10.

A Description

Furnish and install sanitary manhole covers, including frames, sealed lids and internal chimney seals.

B Materials

B.1 Frame and Cover

The frame and cover shall be Neenah R-1550, Type "B" solid lid with self-sealing gasket, concealed pick holes, non-rocking design, and the word "SANITARY" stamped on the cover.

B.2 Internal Chimney Seal

The sanitary sewer manhole chimney seal shall be an internal rubber sleeve as manufactured by Adaptor, Inc. or approved equal. The sleeve and extension shall have a minimum thickness of 3/16 inches and shall be extruded or molded from a high grade rubber compound conforming to the applicable requirements of ASTM C923, with a minimum 1,500 psi tensile strength, maximum 18 percent compression set and hardness (durometer) of 48±5. The sleeve shall be doubled pleated with a minimum unexpanded vertical height of 8 inches and be capable of vertical expansion of not less than 2 inches when installed.

The bands used for compressing the sleeve and extension against the manhole shall be fabricated from 16 gauge stainless steel conforming to ASTM A240 Type 304. All screws, bolts or nuts used on this band shall be stainless steel conforming to ASTM F-923 and 594, Type 304.

B.3 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

Each casting shall be set on the sanitary manhole structure in such a way so that the top of the casting is parallel to the new pavement. This is especially important on incline street grades. In areas of new concrete pavement, the top surface of the manhole casting shall be set 1/16 inch to 1/8 inch below the finished pavement, and in areas of new asphaltic pavement, the top surface of the manhole casting shall be set 1/8 inch to 1/4 inch below the finished pavement.

Precompressed butyl gasket (E-Z Stik or approved equal) shall be used between the manhole, manhole casting, and all adjustment rings. Mortar shall not be used between these structures for adjustment, however mortar shall be used to provide a smooth trowel type finish to the interior surface of the joints between the manhole, adjusting rings and casting.

D Measurement

The department will measure Sanitary Manhole Covers, Type J-Special, as each individual manhole frame and cover, 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.0060.10 | Sanitary Manhole Covers, Type J-Special | Each |

Payment is full compensation for providing all labor and materials, including adjustment rings, frame and cover, chimney seal, and other required fittings; for properly installing said frame and cover on each sanitary manhole including any related cleanup or related work.

42. Standard Sanitary Pipe Connection, Item SPV.0060.11; Sanitary Wye 8-Inch Main, Item SPV.0060.12; Sanitary Wye 10-Inch Main, Item SPV.0060.13; Sanitary Wye 15-Inch Main, Item SPV.0060.14.

A Description

Furnish and install sanitary sewer mainline pipe connections to existing pipes and sanitary sewer mainline wye fittings for lateral connections.

B Materials

B.1 Pipe Connection Fittings

Provide elastomeric seals (rubber gaskets) conforming to ASTM F477 (Mission, Clow, Fernco, coupling or equal) in accordance to State and/or local plumbing code requirements.

B.2 Wye Fittings

Sanitary sewer pipe and fittings shall be Type PSM SDR-35 and meet the requirements of ASTM D3034.

B.3 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 Connections to Existing Pipes

Reconnect all existing live sanitary sewer mainline pipes to the relayed sanitary sewer mains. When a new pipe is connected to an existing pipe, a watertight joint using a flexible coupling installed according to the manufacturer's recommendations is required (Standard Sanitary Pipe Connection).

C.2 Sanitary Tee and Wye Fittings

Install factory wye fittings in the new sanitary sewer mainline pipe to accommodate all existing active sanitary sewer building laterals. Approximate locations of existing laterals are shown on the contract drawings. Verify that existing sanitary lateral pipes are active by dye testing or other approved methods before installing a new wye fitting in the mainline pipe. The cost of this verification is considered incidental to the sanitary sewer construction.

The pipe size of the various existing sanitary building laterals is unknown at this time. The bid item for sanitary wye includes a differentiation for mainline pipe size only. The contractor shall have a sufficient amount of both 4" and 6" nominal diameter branch wye fittings on hand to make equivalent size replacements. The wye fittings will be paid according to the mainline size with no differentiation for either a 4" or 6" nominal diameter branch size.

D Measurement

The department will measure Standard Sanitary Pipe Connection, Sanitary Wye 8-Inch Main, Sanitary Wye 10-Inch Main, and Sanitary Wye 15-Inch Main by each individual connection or fitting, approved by the City of Beaver Dam, and 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.0060.11 | Standard Sanitary Pipe Connection | Each |
| SPV.0060.12 | Sanitary Wye 8-Inch Main | Each |
| SPV.0060.13 | Sanitary Wye 10-Inch Main | Each |
| SPV.0060.14 | Sanitary Wye 15-Inch Main | Each |

Payment is full compensation for providing all labor and materials, including flexible couplings and bands, wye fittings, and other required connection fittings; for furnishing all excavating, except rock excavation; for sealing joints and making connections to new or

existing pipe or fixtures; for backfilling and compacting; for providing granular backfill material, including bedding material; for cleaning out pipes and restoring the worksite.

- 43. Water Valve and Box 6-Inch, Item SPV.0060.15; Water Valve and Box 8-Inch, Item SPV.0060.16; Water Valve and Box 10-Inch, Item SPV.0060.17; Water Valve and Box 12-Inch, Item SPV.0060.18; Fire Hydrant, Item SPV.0060.19; Tee 6"x6"x6", Item SPV.0060.20; Tee 8"x6"x8", Item SPV.0060.21; Tee 8"x8"x8", Item SPV.0060.22; Tee 10"x6"x10", Item SPV.0060.23; Tee 10"x8"x10", Item SPV.0060.24; Tee 12"x6"x12", Item SPV.0060.25; Tee 12"x8"x12", Item SPV.0060.26; Tee 12"x10"x12", Item SPV.0060.27; Bend 45-Degree 8-Inch, Item SPV.0060.28; Bend 45-Degree 10-Inch, Item SPV.0060.29; Bend 45-Degree 12-Inch, Item SPV.0060.30; Reducer 8"x6", Item SPV.0060.31; Reducer 12"x10", Item SPV.0060.32; Connect Water Main to Existing Pipe, Item SPV.0060.33; Corporation, Curb Stop and Box (Set), Item SPV.0060.34.**

A Description

Furnish and install water appurtenances as shown in the plans and as hereinafter provided.

B Materials

B.1 Water Valve and Box

Valves shall be either Mueller 2360 Series Resilient Wedge Gate Valve or American AVK Resilient Seated Gate Valve with O-ring packing, 2-inch operating nut, resilient seat, left hand opening mechanical joint with rubber gaskets, stainless steel bonnet bolts and fluorocarbon coated gland bolts.

Valve box shall be Tyler Union Three-Piece Valve Boxes or approved equal, and consist of a top section, bottom section, base, drop lid, and necessary extensions and all shall be cast iron. Lid shall have the word "WATER" cast on the lid. All 4 inch or larger water valves shall be installed with a Valve Box Adaptor as manufactured by Adaptor Inc., or approved equal.

B.2 Fire Hydrant

Fire hydrants shall be Mueller A-423 Super Centurion Hydrant or Waterous Pacer #WB-67 with a 5-1/4" valve, mechanical joint, 5" storz connection pumper nozzle and two 2-1/2" hose nozzles, break flange safety coupling, bury depth varies as per plan, identical to those presently in use by the City of Beaver Dam. Fire hydrants shall be painted red.

B.3 Water Main Fittings

Full body fittings shall conform to ANSI/AWWA C110/ A21.10 and ANSI/AWWA C111/A21.11 with bituminous coating. Compact fittings shall conform to ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/21.11 with bituminous coating. All fittings shall be provided with cement mortar lining conforming to ANSI/AWWA C104/A21.4. Only ductile iron fittings manufactured in North America shall be allowed.

Polyethylene encasement shall be polyethylene film tube conforming to ANSI/AWWA C105/A21.5. Polyethylene film sheet conforming to ANSI/AWWA C105/A21.5 may be used at odd-shaped appurtenances where the use of tube is not practical.

All water main fittings shall be connected with fluorocarbon coated T-head bolts meeting the requirements of ANSI/AWWA C111/A21.11-0 and each fitting shall be fully encased and sealed with polyethylene film.

B.4 Corporation, Curb Stop and Curb Box

All water service shall be Type K copper tubing meeting the requirements of ANSI/AWWA C800. No joints will be allowed as service pipe shall be continuous between fittings (corporation to curb stop and curb stop to a connection with the existing pipe).

Curb stops shall be Mueller Mark II Oriseal with conductive compression fittings.

All curb stop boxes shall be Tyler Union Series 6500 screw type and include the installation of a circular felt bond breaker because they are located within a concrete terrace or sidewalk area. The new Tyler Union casting shall include a lid marked "WATER" and shall be cast flush into the new concrete. The cost of furnishing and installing this casting and cover along with the coordination between the water piping contractor and the concrete contractor shall be considered incidental to the cost of corporation, curb stop and box.

B.5 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 Water Main and Service Appurtenances

All joints, taps, valves, tees, crosses, bends, reducers and other fittings must be completely wrapped or covered and properly secured with 8 mil thick polyethylene.

The connecting tees for hydrants shall be anchoring tees and all fittings must also be completely wrapped or covered and properly secured with 8 mil polyethylene. The polyethylene film shall be fitted to the contour of the pipe or fitting creating a snug, but not tight, encasement. Sufficient slack shall be provided in contouring to prevent stretching the polyethylene where it bridges irregular surfaces, such as joints or fittings, and to prevent damage to the polyethylene caused by backfilling operations. Overlaps and ends shall be secured with adhesive tape or plastic tie straps. For installations below the water table, circumferential wraps of tape shall be placed at two foot intervals along the barrel of the pipe.

Block all bends and fittings thoroughly with concrete as shown in the special details or install with approved anchoring fittings. Concrete buttresses shall be poured against firm, undisturbed ground. When concrete buttresses cannot be placed against undisturbed ground they shall be placed against fill material of composition conforming to the requirements of ASTM C12 or ASTM D2321 as applicable for rigid and flexible pipe respectively, compacted to 95 percent of the modified proctor density for the material. The buttresses shall be constructed to the minimum dimensions as shown on the contract drawings or as required by the engineer. All buttresses shall be formed to keep the joints free of concrete. Solid precast concrete blocks may be used in lieu of the poured buttresses when approved by the engineer. When concrete blocks are used, they shall be stepped-out to match the minimum dimensions required for poured concrete buttresses.

A valve box and valve box adaptor shall be provided for every valve unless otherwise specified. The valve box shall not transmit shock or stress to the valve and shall be centered and plumb over the wrench nut of the valve.

C.2 Corporation, Curb Stop and Box

All water services, unless noted otherwise on the plans, shall be 1-inch nominal diameter (minimum size and shall be larger if required to match the size of the existing service pipe) and shall use a corporation installed on the mainline with a tapping saddle and a curb stop and box positioned as shown on the plans or as directed by the City Utility Director. The bid item for this work is not dependent upon the size of the water service. Any size service between 1-inch and 2-inch nominal diameter shall be at the same unit cost. The connection from the new service pipe to the existing service pipe shall, in all cases, be located beyond the limits of the new street pavement, being located behind the new curb and gutter. The exact location will depend upon the condition of the existing pipe and be as shown on the plan or as directed in the field by the engineer.

C.3 Fire Hydrants

All hydrants shall stand plumb and shall have the pumper nozzle facing the curb. Drainage shall be provided 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 1 foot around the elbow.

The connecting tees for the hydrants shall be anchoring tees and all fittings for hydrant connections shall be anchoring fittings.

The contractor is responsible for setting the fire hydrant to match the elevation of the finished ground or pavement. Set the finish elevation of the hydrants so the bolts of the break flange are a minimum of 2" and a maximum of 6" above finish ground elevation. Maintain this grade no matter the depth of the main. If extensions are required for hydrants they must be included in the bid, as no extra monies will be paid for adjustments or extensions.

C.4 Connect New Water Main to Existing Pipes

Provide all labor and materials required to properly connect the new water main pipe to the existing water main pipe at the locations shown. This shall include all fittings, including vertical bends, to properly align the new and old pipe and complete the connection.

At all side street water main connections along the length of the project, the contractor is expected to use the bend fittings that are shown on the plan, to adjust the new piping for both horizontal and vertical alignment so as to properly match the existing pipe. No additional compensation will be allowed for misaligned pipes requiring additional fittings because of contractor negligence.

D Measurement

The department will measure Water Valves and Boxes (Size); Fire Hydrant; Tees (Size); Cross (Size); Bend (Size); Reducer (Size); Connect Water to Existing Pipe; Corporation, Curb Stop and Box (Set) by the individual fitting and/or set, approved by the City of Beaver Dam, and 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.0060.15 | Water Valve and Box 6-Inch | Each |
| SPV.0060.16 | Water Valve and Box 8-Inch | Each |
| SPV.0060.17 | Water Valve and Box 10-Inch | Each |
| SPV.0060.18 | Water Valve and Box 12-Inch | Each |
| SPV.0060.19 | Fire Hydrant | Each |
| SPV.0060.20 | Tee 6"x6"x6" | Each |
| SPV.0060.21 | Tee 8"x6"x8" | Each |
| SPV.0060.22 | Tee 8"x8"x8" | Each |
| SPV.0060.23 | Tee 10"x6"x10" | Each |
| SPV.0060.24 | Tee 10"x8"x10" | Each |
| SPV.0060.25 | Tee 12"x6"x12" | Each |
| SPV.0060.26 | Tee 12"x8"x12" | Each |
| SPV.0060.27 | Tee 12"x10"x12" | Each |
| SPV.0060.28 | Bend 45-Degree 8-Inch | Each |
| SPV.0060.29 | Bend 45-Degree 10-Inch | Each |
| SPV.0060.30 | Bend 45-Degree 12-Inch | Each |
| SPV.0060.31 | Reducer 8"x6" | Each |
| SPV.0060.32 | Reducer 12"x10" | Each |
| SPV.0060.33 | Connect Water Main to Existing Pipe | Each |
| SPV.0060.34 | Corporation, Curb Stop and Box (Set) | Each |

Payment is full compensation for providing all labor and materials, including valves and valve boxes, valve box adaptors, fire hydrants, tees, crosses, bends, reducers, couplings, connection sleeves, tapping saddles, saddle outlets, corporations, curb stops and boxes, polyethylene encasement, thrust restraint, anchoring fittings and other required materials to

provide a complete working system; for furnishing all excavating, except rock excavation; for removing or abandoning the existing pipe or fixture that the new item replaces; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for making connections to new or existing pipe or fixtures; for backfilling and compacting; for providing granular backfill material, including bedding material; for providing trench insulation where required; for removing sheeting and shoring; for testing and chlorination; for cleaning out pipes and structures; and restoring the worksite.

Payment for Water Valves and Boxes (Inch) Special also includes valve box adaptors, polyethylene encasement, and all other fittings to properly install each valve and box according to the specifications.

Payment for Fire Hydrants Special also includes reaction blocking or thrust restraint, drain bedding, polyethylene encasement, filter fabric and all hydrant extensions and appurtenances required to set hydrants to the established grade and according to the specifications.

Payment for Corporation, Curb Stop and Box (Set) Special also includes corporation, saddle, curb stop, extension rod, curb box, polyethylene encasement, and all other fittings to properly install each unit according to the specifications.

44. Traffic Control Signs Fixed Message City Provided, Item SPV.0060.35.

A Description

This special provision describes the placement of City of Beaver Dam provided Traffic Control Signs Fixed Message.

B Materials

Furnish temporary sign supports according to the pertinent requirements of standard specification 643.

C Construction

Five signs paid as Traffic Control Signs Fixed Message City Provided shall be placed as shown in the traffic control detail sheets at the time the detour is put into place. These signs will be provided by the City of Beaver Dam, and carry the message “access to local businesses”. Contact City Engineering Coordinator Ritchie Piltz to coordinate the date, time and location to pick up the signs. Pick up the signs from the City of Beaver Dam and when the project is completed and the traffic control items are removed, these signs shall be carefully removed and returned to the city. Contact Mr. Piltz at (920) 887-4600, Ext. 14, (920) 210-6418 cell, or rpiltz@cityofbeaverdam.com at least three days prior to the anticipated pick up date.

D Measurement

The department will measure Traffic Control Signs Fixed Message City Provided by each individual unit, 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.0060.35 | Traffic Control Signs Fixed Message City Provided | Each |

Payment is full compensation for picking up, installing, removing, and returning the signs, and for providing and installing posts for the installation of the signs.

45. Remove Manhole Casting, Item SPV.0060.36.**A Description**

Remove and dispose of manhole castings found in the sidewalks and pavement that are not associated with a manhole removal. In some locations, existing manhole castings remain in the sidewalk above coal vaults that have been abandoned and filled as part of city work that took place in the summer of 2014, and in the pavement over the top of an existing 5x6-foot box culvert. Remove and dispose of these manhole castings.

B (Vacant)**C Construction**

During removal of the existing sidewalks and pavement, remove and dispose of any remaining manhole castings encountered.

D Measurement

The department will measure Remove Manhole Casting as each individual 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.0060.36 | Remove Manhole Casting | Each |

Payment is full compensation for removing and disposing of any manhole castings found in the sidewalk or pavement during the sidewalk or pavement removal that are not associated with an existing manhole structure being removed and paid for with other removals.

46. Black Sign Post and V-Loc Post Anchor Unit, SPV.0060.40.**A Description**

This special provision describes furnishing and installing round sign posts, V-Loc post anchors, and powder coating sign posts black in accordance to standard spec 634, as shown in the plans or as directed by the engineer, and as hereinafter provided.

B Materials

Furnish sign posts and pipe caps consisting of Schedule 40 galvanized steel with wall thickness of 0.095 inches and outside diameter (OD) of 2-3/8 inches. Length of each post shall be as shown in the plans as required to meet the proper sign mounting heights and minimum V-Loc embedment recommended by the manufacturer.

Furnish V-Loc post anchor units with wedge for round poles, Model number 23-VR1P for new concrete installations and 2-3/8 inch OD poles.

Furnish an exterior weather-resistant powder coating, black color (RAL 9017), 80-90% gloss, meeting the following requirements for both the sign posts and pipe caps:

| Test | Method | Requirement |
|------------------------------------|---------------|------------------------------------|
| Film thickness | --- | 4 mils |
| Gloss according to gardener 60° | ASTM D523 | 80-90° |
| Pencil hardness | ASTM B3363 | 2H (min) |
| Acid salt spray resistance | ASTM G85 | Max. undercutting 1 mm/0.04 in. |

Clean galvanized steel surfaces and prepare according to the manufacturer's recommendations for galvanized steel before powder coating.

Apply powder coating and bake according to the manufacturer's recommendations.

Determine the dry film thickness by using magnetic film thickness gauges calibrated for dry film thickness measurement according to SSPC-PA 2. The engineer will reject the powder coating if minimum film thicknesses are less than specified.

C Construction

C.1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and conditions of materials is in conformance with these specifications. If the coating is damaged, repair or replace equipment to the approval of the engineer at no additional cost. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during installation.

C.2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to coated surfaces, touch-up the surface in conformance with the manufacturer's recommendations with a matching Black RAL 9017 finish. If damage is excessive, the equipment shall be replaced at no additional cost. Provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

C.3 Installation

Install Black Sign Post and V-Loc Post Anchor Unit at locations shown in the plans and in accordance to the Manual on Uniform Traffic Control Devices.

Mount posts in concrete sidewalk with V-Loc post anchors. Locate and place V-Loc anchors prior to pouring concrete to avoid cutting into the new colored, stamped concrete sidewalk installed in the terrace. Install the posts and V-Loc anchors per the manufacturer's installation instructions such that the posts are plumb. Remove any V-Loc bases installed that result in the posts leaning to any side out of plumb and reinstall at contractor expense.

D Measurement

The department will measure Black Sign Post and V-Loc Post Anchor Unit as each individual unit, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--|------|
| SPV.0060.40 | Black Sign Post and V-Loc Post Anchor Unit | Each |

Payment is full compensation for furnishing, producing, and installing posts and V-Loc post anchors, cleaning the steel; furnishing and applying the powder coating materials; loading, hauling, storing, and performing field repairs.

47. Box Culvert Connection, Item SPV.0060.70.

A Description

This special provision describes demolishing portions of an existing concrete box culvert and connecting a new storm sewer pipe to a remaining portion of the box culvert in accordance to the requirements of standard specs 203, 502 and 504, as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

Backfill used to fill all trenches shall meet the requirements of granular backfill as stated in standard spec 203.3.5. Adhesive anchors shall meet the requirements for Type L anchors as stated in standard spec 502.2.12.1. Steel reinforcement and cast-in-place concrete used in the connection shall meet the requirements of standard spec 504.2.

C Construction

Perform work in accordance to standard specs 203.3, 502.3.14 and 504.3.

D Measurement

The department will measure Box Culvert Connection 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.0060.70 | Box Culvert Connection | Each |

Payment is full compensation for breaking down and removing portions of an existing concrete box culvert; for repairing all damage including any associated engineering costs; for required salvaging, storing, and disposing of all materials; for backfilling using granular backfill; for adhesive anchor work including drilling holes, providing adhesive, and placing the reinforcing dowel bars; and for concrete end wall work including all concrete and reinforcement materials, forms, placing concrete and reinforcement, and finishing and curing concrete including protecting and heating, as required.

48. Inlet Covers Type HD, Item SPV.0060.72.**A Description**

This special provision describes furnishing and installing inlet covers in accordance to standard spec 611, as shown on the plans, and as hereinafter provided.

B Materials

Provide materials in accordance to standard spec 611.2. Supply a Type H inlet cover with a flat plate instead of a curb box as shown on the plans.

C Construction

Construct in accordance to standard spec 611.3.

D Measurement

The department will measure Inlet Covers Type HD 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.0060.72 | Inlet Covers Type HD | Each |

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

- 49. Sanitary Sewer Pipe 8-Inch, Item SPV.0090.01; Sanitary Sewer Pipe 10-Inch, Item SPV.0090.02; Sanitary Sewer Pipe 12-Inch, Item SPV.0090.03; Sanitary Sewer Pipe 15-Inch, Item SPV.0090.04; Sanitary Sewer Pipe 16-Inch, Item SPV.0090.05; Sanitary Lateral 4 or 6 Inch, Item SPV.0090.06; Sanitary Sewer Pipe 18-Inch, Item SPV.0090.14.**

A Description

Furnish and install sanitary sewer mainline and laterals as shown in the plans and as hereinafter provided.

B Materials

B.1 PVC Pipe (All pipe diameters other than 16-inch)

Pipe requirements for 4-inch to 15-inch diameters shall be Type PSM SDR-35 and meet the requirements of ASTM D3034. Pipe over 15-inch diameter shall meet the requirements of ASTM F679. Pipe shall be of the bell and spigot type and meet the requirements of ASTM D3034 Type PSM SDR-35. Pipe joints shall be elastomeric seals (rubber gaskets) conforming to ASTM F477 and joint assembly that conforms to ASTM D3212.

B.2 Ductile Iron Pipe (16-inch diameter pipe)

Pipe shall conform to the requirements of ANSI 21.51 (AWWA C151) for bituminous coated, Class 52 ductile iron pipe unless specified otherwise. Standard cement mortar lining shall meet the requirements of ANSI 21.4 (AWWA C104). Pipe joints and fittings shall be push-on type or mechanical joint type conforming to ANSI 21.11 (AWWA C111).

B.3 Tracer Wire and Terminal Box

For direct burial installations, tracer wire shall be No. 12 gauge, ASTM C578, Type IV, solid insulated copper wire rated for wet conditions. Tracer wire for sewer utilities applications shall have green colored insulator.

Tracer wire terminal location boxes shall be Valvco or equal, with a cast iron lockable top. Cast iron tops shall be appropriately labeled, "SEWER".

B.4 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 Embedment

The bedding, haunching and initial backfill material shall be $\frac{3}{4}$ -inch clear stone. The initial backfill (cover material) shall be installed and compacted to a minimum of 12-inches over the top of the pipe.

PVC pipes, shall be embedded in accordance to ASTM D2321, Class II embedment.

Ductile iron pipes shall be embedded in accordance to ASTM C12, Class B embedment.

C.2 Trench Backfill

All trenches and excavations shall be backfilled with granular backfill conforming to standard spec 209 or dense graded base (1 1/4-Inch) conforming to standard spec 305. The contractor may use excavated material from trench conforming to standard spec 209 for granular backfill to supplement any imported materials.

The backfill material shall be mechanically compacted in 12-inch thick layers, from a distance of one foot above the pipe to the finished subgrade. The degree of compaction shall be to 95 percent maximum dry density per modified proctor (ASTM D1557).

C.3 Unstable Soil

If in the opinion of the engineer the trench bottom is of unstable material, the engineer may direct the contractor to excavate the unstable material and replace same with 3/4 inch washed stone. Washed stone used in such cases shall be considered incidental and included in the price bid for sanitary sewer unless bid or specified otherwise.

C.4 Sanitary Sewer Mainline Testing

The unit price for sanitary sewer shall also include grade, alignment and deflection or deformation testing along with closed circuit television inspection. This shall include a television inspection and report of the new sewer main installed. Perform this testing, inspection and reporting before paving of the roadway. Submit the television inspection in digital format. Submit the television report in digital (PDF) and hard copy format.

All polyvinyl chloride pipe installations shall be tested for deflection by using a rigid ball or mandrel and shall be performed in accordance to ASTM D2321 and without the use of mechanical pulling devices. Deflection may not exceed 5 percent if tested within 30 days of placement of final backfill or 7.5 percent if tested more than 30 days after final backfill is placed. Final backfill must be in place prior to testing.

Sewer pipe will be inspected for alignment by the use of mirrors, flashlights or lamps. Sewer lines shall permit a through view of at least half the pipe diameter between manholes.

If any of the tests are not met, the contractor shall, at his own expense, determine the source of the problem and repair or replace all defective materials.

C.5 Determination of Active Sanitary Laterals

Dye test and/or provide the necessary inspections to determine which laterals are active and to be reconnected and relayed. City staff will be available to assist the contractor in making this determination. Existing connections to the main, as indicated by a previous television report, are shown on the plan and could be either active or inactive.

C.6 Depth of New Sanitary Laterals

Make every effort to keep the depth of the new sanitary lateral greater than 8 feet beneath the sidewalk elevation and then connect with 45-degree bends to meet the existing lateral elevation. Additionally, keep the sanitary laterals deep enough to avoid conflicts with other utilities. This can be accomplished by having a riser located at the mainline connection and another riser located near the connection to the existing pipe near the right-of-way line or as directed by the engineer.

C.7 Sanitary Lateral Slope

Where new sewer is to be installed to replace existing sanitary sewer, service laterals shall be extended from the old sanitary lateral and connected to the new main. Minimum grade of lateral extensions shall be 1/8 inch per foot. Maximum grade of lateral extensions shall be 1/2 inch per foot. Lateral extensions which require a grade in excess of 1/2 inch per foot to connect new sewers to existing service laterals shall be installed with a riser section.

C.8 Maintaining Sanitary Sewer Service

Provide adequate equipment and facilities to provide bypass pumping for all elements of work requiring interruption to flow in the sanitary sewer. The contractor is responsible for damages to private or public property due to sewer backup while controlling sewage flow.

C.9 Water/Sewer Pipe Crossings

The contractor shall maintain the following minimum separations. Wherever the sewer crosses above a water main maintain a clear vertical separation of 18 inches (outside of pipe to outside of pipe) and wherever the sewer crosses below the water main maintain a clear vertical separation of 6 inches (outside of pipe to outside of pipe).

C.10 Cleaning

The contractor is responsible to see that manholes and sewer lines are free of dirt, gravel and debris, from the construction operations, at all times. The city will notify the contractor of any debris identified, and if the contractor fails to properly clean said debris, the city will charge the contractor for the cleaning of any manholes and sewer lines on this project during the progress of construction and until final acceptance of the improvements.

Upon completion of the work, thoroughly clean out all manholes and pipe along the entire length of the project before leaving the construction site.

C.11 Sanitary Lateral Pipe Size

The pipe size of the various existing sanitary building laterals is unknown at this time. The contractor shall have a sufficient amount of both 4-inch and 6-inch nominal diameter pipe on hand to make equivalent size replacements.

C.12 Tracer Wire

Tracer wire shall be installed in conjunction with all PVC, or non-conductive sanitary main and services. The cost of tracer wire installation shall be incidental to the sewer construction. Ground level access locations shall be at sanitary manholes and inside a tracer wire box located above the connection point with the existing piping or located

otherwise as directed by the City Utility Director. Eighteen inches of extra wire shall be provided at all terminations.

At manholes, the wire transition from outside to inside the manhole shall be watertight.

Tracer wire shall be installed continuous to the greatest extent possible with the wire placed along the top of the entire length of the pipe, and taped to the pipe, including hydrant barrels, at intervals not exceeding 10-feet. Splices in the wire shall be held to a minimum. Where splices are necessary, they shall be made with underground rated mechanical wire connectors or by twisting the wires a minimum of 4 times and soldering, then wrapping with two layers of polyethylene tape to 6-inches beyond the stripped wire. Splicing with wire nuts shall not be allowed.

D Measurement

The department will measure Sanitary Sewer Pipe (Size) and Sanitary Lateral (Size) by the linear foot, approved by the City of Beaver Dam, and acceptably completed. The measurement for sanitary mainline is the actual length of pipe and does not include the inside diameter of sanitary manholes. The measurement for sanitary lateral is the actual length of pipe from the wye fitting at the mainline along with any risers, vertical bends, horizontal bends and couplings that may be required to the connection point onto the existing lateral pipe.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|------------------------------|------|
| SPV.0090.01 | Sanitary Sewer Pipe 8- Inch | LF |
| SPV.0090.02 | Sanitary Sewer Pipe 10- Inch | LF |
| SPV.0090.03 | Sanitary Sewer Pipe 12- Inch | LF |
| SPV.0090.04 | Sanitary Sewer Pipe 15- Inch | LF |
| SPV.0090.05 | Sanitary Sewer Pipe 16- Inch | LF |
| SPV.0090.06 | Sanitary Lateral 4 or 6 Inch | LF |
| SPV.0090.14 | Sanitary Sewer Pipe 18-Inch | LF |

Payment is full compensation for providing all labor and materials, including couplings, vertical risers, vertical and horizontal bends, tracer wire and terminal box, and other required fittings; for furnishing all dye testing or inspection required to identify active laterals; for furnishing all excavating, except rock excavation; furnishing and placing pipe bedding and hunching material; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for laying pipe; furnishing and placing granular backfill; compacting the backfill; for removing sheeting and shoring; for providing flow control and temporary pumping; for testing; for cleaning out pipes and restoring the worksite.

Payment for Sanitary Lateral (Size) Special also includes all work and materials, including a terminal box and miscellaneous fittings to properly connect the new lateral to the existing lateral pipe according to the specifications. Additionally, if the city directs the contractor to install a lateral without connecting it to an existing pipe (for a future connection), then this work item shall also include any fittings required to properly cap or plug the end of the pipe.

50. Water Main 6-Inch, Item SPV.0090.07; Water Main 8-Inch, Item SPV.0090.08; Water Main 10-Inch, Item SPV.0090.09; Water Main 12-Inch, Item SPV.0090.10; Water Service 1-Inch, Item SPV.0090.11.

A Description

Furnish and install water main and appurtenances as shown in the plans and hereinafter provided.

B Materials

B.1 Polyvinyl Chloride (PVC) Mainline Pipe

Polyvinyl Chloride pipe shall meet the requirements of ANSI/AWWA C900, Pressure Class (PC) 235, minimum; or ASTM D2241, Pressure Rating (PR) 250, minimum; and a DR 18 or less. Joints shall be push-on type employing rubber gaskets and conform to ASTM D3139.

B.2 Service Pipe

Services shall be Type K copper tubing and shall conform to ANSI/AWWA C800. No joints allowed as service pipe shall be continuous between fittings.

B.3 Tracer Wire

For direct burial installations, tracer wire shall be No. 12 gauge, ASTM C578, Type IV, solid insulated copper wire rated for wet conditions. Tracer wire for water utilities applications shall have a blue colored insulator.

Tracer wire terminal location boxes shall be Valvco or equal, with a cast iron lockable top. Cast iron tops shall be appropriately labeled, "WATER".

B.4 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 Applicable Specifications

All construction shall be done in conformance with ANSI/AWWA C600 unless otherwise specified.

C.2 Water Main

The contractor shall supply and install pipe fittings, couplings, bends, and appurtenances as required to complete the project. Install the water main to a minimum depth of 7 feet as measured from the top of the pipe to the future street grade, or to a greater depth where indicated otherwise on the plans where the main shall be installed to a greater depth to avoid interference with the sanitary sewer, laterals or storm sewers.

Begin construction of the water main only once the deeper sanitary sewer work has been completed.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed in the line. If the crew cannot put the pipe into the trench and in place without getting earth into it, the engineer may require that before lowering the pipe into the trench, a heavy, tightly woven canvas bag of suitable size shall be placed over each end and left there until the connection is to be made to the adjacent pipe.

All pipes shall be cut with an approved mechanical cutter. The cut end of a pipe to be used with rubber gasket joints shall be tapered by grinding or filing about 1/8 inch back at an angle of approximately 30 degrees with the centerline of the pipe, and any sharp or rough edges shall be removed.

Insulation shall be installed if bury is less than seven feet (7'-0") or a utility crossing effectively removes earthen freeze protection. Insulation shall be installed as directed by the engineer and shall be considered incidental to the construction.

C.3 Embedment

The bedding, haunching and initial backfill material shall be 3/4-inch clear stone. The initial backfill (cover material) shall be installed and compacted to a minimum of 12-inches over the top of the pipe.

Class II embedment shall be used for all PVC pipe installed under this contract in accordance to the contract drawings and ASTM D2321.

C.4 Trench Backfill

Backfill all trenches and excavations with granular backfill conforming to standard spec 209 or dense graded base (1 1/4-Inch) conforming to standard spec 305. The contractor may use excavated material from trench conforming to standard spec 209 for granular backfill to supplement any imported materials.

The backfill material shall be mechanically compacted in 12-inch thick layers, from a distance of one foot above the pipe to the finished subgrade. The degree of compaction shall be to 95 percent maximum dry density per modified proctor (ASTM D1557).

C.5 Unstable Soil

If in the opinion of the engineer the trench bottom is of unstable material, the engineer may direct the contractor to excavate the unstable material and replace same with 3/4 inch

washed stone. Washed stone used in such cases shall be considered incidental and included in the price bid for water main or water service unless bid or specified otherwise.

C.6 Water Shut-Off Notice and Existing Valve Operation

The contractor shall give City Utility Director notice at least 24 hours prior to any planned water shut-off that may extend continuously for more than 2 hours. Only the city water utility personnel will be allowed to operate all existing water supply valves.

C.7 Tracer Wire

Trace wire shall be installed in conjunction with all PVC or non-conductive water main and services. The cost of tracer wire installation shall be incidental to the water construction. Ground level access locations shall be at fire hydrants, valve boxes, and curb boxes, installed as directed by the City Utility Director. Eighteen inches of extra wire shall be provided at all terminations.

A terminal box shall be installed next to all fire hydrants as shown in the detail. The cost of the terminal box shall be incidental to the water main construction.

Tracer wire shall be installed continuous to the greatest extent possible with the wire placed along the top of the entire length of the pipe, and taped to the pipe, including hydrant barrels, at intervals not exceeding 10-feet. Splices in the wire shall be held to a minimum. Where splices are necessary, they shall be made with underground rated mechanical wire connectors or by twisting the wires a minimum of 4 times and soldering, then wrapping with two layers of polyethylene tape to 6-inches beyond the stripped wire. Splicing with wire nuts shall not be allowed.

C.8 Disinfecting Water Mains

All water main and services shall be disinfected in conformance with ANSI/AWWA C651. The main will not be accepted or placed in service until two consecutive satisfactory tests are taken at least 24 hours apart from water samples in the new main following the final flushing. The testing lab shall furnish copies of all lab results from the bacteriological tests run on the water mains to the City Utility Director.

At least one set of samples shall be collected from every 1,200 feet of the new water main, plus one set of samples from the end of the main and a minimum of one set from each water main branch.

C.9 Dechlorinating Water Mains

Chlorinated water discharged directly or indirectly to surface waters as a result of flushing newly installed water mains, discharging water tanks or reservoirs, hydrant flushing, test pumping wells, or any other circumstance shall be dechlorinated in accordance to the current "Hydrostatic Test Water or Water Supply System Water General Permit, WPDES Permit No. WI-0057681". The free chlorine residual of discharged water shall be reduced to 0.1 parts per million or less, or to the normal operating concentration of the chlorine residual maintained in the water supply system. The concentration of free chlorine residual shall be measured at the point of surface water entrance.

C.10 Water Services

The work includes all labor and materials to reconstruct and reconnect each existing active water service, plus install any new services that the contractor is directed by the city to be installed at the time of construction. Start this work only after the hydrostatic and bacteriological tests of the mainline have been successfully completed and verified by the city water utility staff.

The pipe size for all existing water services is based upon information contained in the city records. If during construction, a different water service pipe size is encountered, match the size of the new pipe to the existing pipe, within reason. In no case shall the water service pipe size be decreased without the consent of the City Utility Director. If a different water service pipe size is encountered from that noted on the plans, notify the City Utility Director of the difference and document the existing pipe size and also the size of the new water service being installed. The minimum pipe diameter for water service is 1-inch.

The connection from the new service pipe to the existing service pipe shall, in all cases, be located beyond the limits of the new street pavement, being located behind the new curb and gutter. The exact location will depend upon the condition of the existing pipe and be as shown on the plan or as directed in the field by the engineer.

C.11 Testing

Hydrostatic tests shall consist of pressure and leakage test in accordance to ANSI/AWWA C600, Hydrostatic Testing. The hydraulic tests shall be conducted at 150 percent of normal operating pressure or 150 psi, whichever is greater. Water shall not be added during the pressure test. No pipe section will be accepted if the test pressure drops more than 5 psi within the two-hour test duration. The leakage is the amount of water required to bring the pressure back up to the starting pressure once the pressure test passes.

Hydrostatic tests shall be conducted on sections of water main recommended as ready by the contractor and approved by the engineer. No section shall be less than one block (approximately 400 feet) of water main unless conditions warrant such testing of smaller sections. All equipment required for hydrostatic testing shall be furnished and operated by the contractor under the supervision of the engineer.

All tracer wire must be tested for electrical continuity. All equipment necessary to make the test and to establish continuity of all tracer wire shall be provided by the contractor.

D Measurement

The department will measure Water Main (Size); Water Service (Size) by the linear foot, approved by the City of Beaver Dam, 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.0090.07 | Water Main 6-Inch | LF |
| SPV.0090.08 | Water Main 8-Inch | LF |
| SPV.0090.09 | Water Main 10-Inch | LF |
| SPV.0090.10 | Water Main 12-Inch | LF |
| SPV.0090.11 | Water Service 1-Inch | LF |

Payment is full compensation for providing all labor and materials, including pipe, tracer wire, tracer wire terminal box, and miscellaneous items for installing a complete working system, for furnishing all excavating, except rock excavation; furnishing and placing pipe bedding and hunching material; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for sealing joints and making connections to new or existing pipe or fixtures; furnishing and placing granular backfill; compacting the backfill; for providing trench insulation where required; for removing sheeting and shoring; for testing and chlorination; for cleaning out pipes and structures; and restoring the worksite.

Payment for Water Service (Size) Special also includes all work and materials, including miscellaneous fittings to properly connect the new service to the existing service pipe according to the specifications. Additionally, if the city directs the contractor to install a service without connecting it to an existing pipe (for a future connection), then this work item shall also include any fittings required to properly cap or plug the end of the pipe.

51. Removing Coal Vault and Building Foundation Walls, Item SPV.0090.12.

A Description

This special provision describes partially removing existing coal vault and building foundation walls that are within the highway right-of-way and may interfere with the normal roadway construction. These coal vaults have been previously sealed off and filled with granular (pit run) material, but the walls and supporting beams within the sidewalks remain in place. The building foundation walls at 152 Front Street were removed along with the building demolition to varying depths below grade, but may need to be removed to a further depth as necessary for roadway construction.

B Vacant

C Construction

Wherever existing coal vault and building foundation walls are encountered below the sidewalks and within the highway right-of-way, remove those walls to the subgrade elevation, depth shown in the Remove Coal Vault Wall construction detail, or as otherwise directed by the engineer and at least 2 feet behind the back of curb as shown in the plan details. In locations where new catch basins will be constructed, the coal vault walls will need to be removed to at least 6 inches below the bottom of the proposed structures. Since these walls are of varying construction, and may be attached to the structure of existing private buildings, use methods that will ensure no damage is done to parts of the structure not required to be removed. Walls may be made of concrete, concrete block, stone, or other materials, and the removal areas may also include steel beams used to hold up the

sidewalks prior to the abandonment and filling of the coal vaults. Cutting these steel beams for removal is incidental to the Removing Concrete Sidewalk item.

City of Beaver Dam records show abandoned coal vaults exist at the following addresses: 101-103, 105-107, 109, 111-123, 125-131, 133, 135, 137, 139, 141, 143-145, 147-149, 151, 153 Front Street on the south side of Front Street, and 100-104, 106, 108, 110, 112, 114, 116, 118, 120-122, 124, 126, 128-132, 134, 136-138, 140, 142, 144-150, 152 Front Street on the north side of Front Street This list may not be complete and is intended for informational purposes only.

The location determined thus far for removal of the building foundations walls at 152 Front Street is Station 3+35LT to Station 6+60LT. This list may not be complete and is intended for informational purposed only.

D Measurement

The department will measure Removing Coal Vault and Building Foundation Walls in length by the linear foot, acceptably completed. Measurement will be along the face of the wall, parallel to the highway reference 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.0090.12 | Removing Coal Vault and Building Foundation Walls | LF |

Payment is full compensation for sawing, breaking down, removing, and disposing of the part of the existing walls that are in conflict with the roadway construction. Saw cuts in the existing sidewalks and any additional sawing to remove the walls or supporting steel beams will be incidental to the work.

52. Temporary Pedestrian Barrier, Item SPV.0090.13.

A Description

This special provision describes the construction and installation of the Temporary Pedestrian Barrier to be used as part of the ‘Traffic Control – Pedestrian Access’ throughout the duration of the project.

B Construction

Construct or install a barrier that directs the pedestrian traffic throughout the construction area during the two stages of the project. Make sure that barrier is constructed following the dimensions and requirements laid out in the ‘Temporary Pedestrian Access and Remove Coal Vault Wall’ and ‘Temporary Pedestrian Barrier’ details of the plan, another engineer approved device, or as otherwise directed by the engineer. Maintain the Temporary Pedestrian Barrier at the edge of the existing sidewalk for the pedestrian access area at all times during the roadway work. Move, repair, and/or replace as necessary for any utility, storm sewer, or other work that may disturb the barrier.

C Measurement

The department will measure Temporary Pedestrian Barrier by the linear foot, acceptably completed. Measurement will be along the face of the barrier parallel to the highway reference line.

D Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|------------------------------|------|
| SPV.0090.13 | Temporary Pedestrian Barrier | LF |

Payment is full compensation for construction, installing, maintaining, moving, repairing, reinstalling, and removal of the temporary pedestrian barrier throughout the duration of the construction project.

53. Abandoning Storm Sewer (5x6-foot Box Culvert), Item SPV.0090.72.**A Description**

This special provision describes partially removing and abandoning sections of existing storm sewer box culverts.

B Materials

Furnish granular backfill according to the pertinent requirements of standard spec 209. This material is incidental to the work and will not be paid for separately.

C Construction

Abandon and partially remove box culvert at locations as shown on the storm sewer plans and the storm sewer miscellaneous quantities. Additional locations of removal may be necessary for sanitary sewer and water utility, street lighting, and traffic signal work. These locations will be indicated by the respective plans or as directed by engineer. The top of the box culvert shall be removed, the bottom shall be cracked to allow for drainage, and the sides shall be removed to the depth of 2 feet below subgrade or as otherwise shown on the plan. The remaining area inside the box culvert shall be filled with compacted granular backfill to the normal subgrade depth per standard spec 209.

Caution must be used to preserve existing utility lines crossing through box culvert during removals.

D Measurement

The department will measure Abandoning Storm Sewer, 5x6-Foot Box Culvert in length by the linear foot, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--|------|
| SPV.0090.72 | Abandoning Storm Sewer, (5x6-Foot Box Culvert) | LF |

Payment is full compensation for removing the top of the box culvert, for removing the sides to 2 feet below subgrade depth or as necessary for storm sewer, sanitary sewer, water utility, street lighting, and traffic signal work indicated on the respective plan, for cracking the bottom of the box culvert, for backfilling with granular backfill the remaining part of the abandoned box culvert and for disposing of all removed material. If sawcuts are required for any of the removal work, these will be incidental to the Abandoning Storm Sewer, 5x6-foot box culvert work and will not be paid for separately.

54. Solar Powered Rectangular Rapid Flashing Beacon (RRFB) With Pedestrian Activation, Item SPV.0105.01.

A Description

Furnish and install a Solar Powered Rectangular Rapid Flashing Beacon (RRFB) LED Light Assembly with Pedestrian Activation and Large LED Arrays (RRFB-XL™). The RRFB- XL™ shall be powered by a solar-assisted battery. The RRFB- XL™ shall be pedestrian-activated by pushbutton.

B Materials

1.0 General Requirements

RRFB-XL™ shall be in conformance with all applicable MUTCD standards and guidelines, and shall exceed the minimum requirements specified in FHWA Memorandum IA-11, Interim Approval for Optional Use of Rectangular Rapid Flashing Beacons. It shall consist of rapidly and alternately flashed rectangular yellow indications having LED-array based pulsing light sources, and shall be designed, located, and operated in accordance to the detailed requirements specified in Memorandum IA-11,

Interim Approval for Optional Use of RRFB and subsequent amendments as detailed herein.

- 1.1 Each RRFB-XL™ shall be a complete assembly including Controller, Battery, Solar Panel, LED indications in a Light Bar, Signage, and Pushbuttons.
- 1.2 An RRFB-XL™ assembly will have two light bars (mounted back-to-back facing dual directions) per pole.
- 1.3 Each Light Bar shall house two rapidly and alternately flashing rectangular yellow indications and one yellow side-mounted pedestrian indication, each with an LED-array based light source. The LED-based pulsing light arrays shall be designed, located and operated in accordance to the detailed requirements as specified on the plans. Active vehicle indications shall be visible at distances over 1000 feet during the day and over 1 mile at night.

- 1.4 Individual components shall be replaceable independently of other components, equipped with approved terminal strips or wire-end molded connectors.

2.0 Functional Requirements

Per FHWA guidelines, RRFB shall be normally dark, shall initiate operation only upon pedestrian actuation, and shall cease operation at a predetermined time after the pedestrian actuation. The flash cycle duration should be based on the MUTCD procedures for timing of pedestrian clearance times for pedestrian signals: refer to MUTCD 2009 Section 4E.06 and any State-specified regulations.

As a specific exception to requirements for the flash rate of beacons as stated in 2009 MUTCD Section 4K.01, RRFBs shall use a much faster flash rate. Each of the two yellow vehicle indications of an RRFB shall have 70 to 80 periods of flashing per minute and shall have alternating, but approximately equal, periods of rapid flashing light emissions and dark operation. During each of its 70 to 80 flashing periods per minute, one of the yellow indications shall emit two medium rapid pulses of light and the other yellow indication shall emit four short rapid pulses of light followed by a long pulse.

The outside edges of the RRFB indications, including the Light Bar, shall not project beyond the outside edges of the W11-2. The flash rate of each individual yellow indication, as applied over the full on-off sequence of a flashing period of the indication, shall not be between 5 and 30 flashes per second, to avoid frequencies that might cause seizures.

- 2.1 Each RRFB-XL™ shall operate on solar-assisted battery power.
- 2.2 Upon activation by ADA-compliant pushbutton, the two yellow indications in each RRFB-XL™ shall flash in a rapidly alternating “wig-wag” flashing sequence (left indication on, then right indication on).
- 2.3 The light intensity of the vehicle indications shall meet the minimum specifications of Society of Automotive Engineers (SAE) standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated November 2008. Manufacturer Certification of Compliance shall be provided upon request.
- 2.4 When activated, all indications associated with a given crosswalk (including those with an advance crossing sign, if used) shall simultaneously commence operation of their alternating rapid flashing within 120msec, and shall cease operation at a predetermined time after the pedestrian actuation.
- 2.5 The duration of the flash cycle shall be programmable from 1 second to 24 hours, in increments of seconds, minutes and hours.

- 2.6 The Pedestrian indication shall be directed at and visible to pedestrians in the crosswalk, and it shall flash concurrently with the vehicle indications to give confirmation that the RRFB-XL™ is in operation.
- 2.7 The system shall include an actuation counter providing data that can be downloaded on-site to a laptop computer using DB9 or USB type cables.
- 2.8 Autonomy with a fully charged battery shall be up to 14-28 days without sun, dependent upon ambient temperature and number of activations.

3.0 Material Specification

The Manufacturer shall provide a complete solar-powered RRFB-XL™ assembly, consisting of but not limited to the Light Bar with LED indications, solar panel, battery, mounting hardware and electrical components including wiring and solid-state circuit boards. The RRFB-XL™ assembly shall include the following items:

3.1 Light Bar Housing and Indications

- a. The Light Bar housing shall be constructed of durable, corrosion-resistant powder-coated aluminum with stainless steel fasteners.
- b. Enclosed components shall be modular in design whereby any component can be easily replaced using common hand tools, without having to remove the housing from the pole.
- c. All mounting hardware required for mounting the Light Bar housing shall be provided, and shall be powder coated black (RAL 9017).
- d. Each of the two vehicle RRFB-XL™ LED indications shall be approximately 7.25" wide x 3" high.
- e. A pedestrian LED indication, approximately 0.5" wide x 2.5" high, shall be side-mounted in the Light Bar housing to be directed at and visible to pedestrians in the crosswalk.
- f. The LEDs used shall be rated for a minimum 15-year life span.

3.2 Controller

- a. The Controller shall be housed in a NEMA 4X rated aluminum enclosure, metal black (RAL 9017) in color, intended for indoor or outdoor use, primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from ice formation.
- b. The LED light outputs and flash pattern shall be completely programmable, with the capability to actuate RRFB-XL, RRFB, round LED signal beacons and LED-enhanced signs.
- c. The flashing output shall have 70 to 80 periods of flashing per minute, during which one of the yellow indications shall emit two medium pulses of light and the other yellow indication shall emit four short rapid pulses of light followed by a long pulse. The output current shall be maintained as programmed for the duration of the pulse. The flashing output shall be programmable.

- d. The Controller shall be reconfigurable if future MUTCD or State guidelines specify a different flash pattern.
- e. The Controller shall be capable of storing input count data in preset intervals, with downloadable capabilities using optional Windows-based PC software program and standard RS232 programming cable.
- f. The Controller shall be, in the unlikely event of failure, replaceable independently of other components.

3.3 Battery

- a. The Battery shall be a 12VDC Absorbed Glass Mat (AGM) sealed lead acid, maintenance-free battery.
- b. The Battery shall be rated at 99AH minimum and shall conform to Battery Council International (BCI) specifications.
- c. The Battery shall be solar-charged with a capacity up to 30 days of autonomy without sunlight, varying with ambient temperature and number of activations.
- d. The Battery shall be replaceable independently of other components.
- e. The Battery shall have a minimum operating temperature range of -76° to 140°F (-60° to 60°C).

3.4 Solar Panel

- a. The Solar Panel shall provide 85 watts at peak total output.
- b. The Solar Panel shall be affixed to an aluminum plate and bracket, adjustable at an angle of 45°- 60° to facilitate adjustment for maximum solar collection and optimal battery strength.
- c. The Solar Panel Assembly (panel, plate and bracket) shall be mounted on a 360° rotatable pole cap mount, to facilitate adjustment for maximum solar collection and optimal battery strength.
- d. Rated for 90mph wind conditions
- e. The Solar Panel shall have a minimum operating temperature range of -40° to 185°F (-40° to 85°C).
- f. One 85W Solar panel will operate all equipment

3.5 Signs and Plaques

- a. All signs shall conform to MUTCD standards.
- b. All sign blanks and plaques shall be Federally specified .080 gauge, 5052 aluminum.
- c. Unless specified otherwise, sign sheeting shall be **Fluorescent Yellow 3M™ DG3** diamond grade cubed or equivalent prismatic sheeting, with anti-graffiti overlay.
- d. All sign assemblies shall use provided anti-vandal fasteners and tools to mount components to sign, and sign to fixture.
- e. Crossing signs shall be W11-2 per MUTCD (4 signs).
- f. Crossing plaques W16-7P shall also accompany the crossing signs (4 signs).

- g. Pedestrian pushbutton instruction signs shall be furnished, at a minimum size of 5" x 7", to be mounted adjacent to or integral with each pedestrian pushbutton (2 signs).

3.6 Bulldog Pushbutton

- a. The Push Button shall be capable of continuous operation within a temperature range of -30° to 165°F (-34° to 74°C).
- b. The Push Button shall be ADA compliant, and shall operate as a normally open (n/o) circuit.
- c. Shall be Polara Bulldog 3 model (Black)

4.0 Supplier Warranty

The system shall be supported by a three-year supplier warranty.

C Construction

Assemble Solar Powered Rectangular Rapid Flashing Beacon (RRFB) With Pedestrian Activation per the manufacturer's recommendations. Mount the solar panel, battery and controller cabinet, signage, light bar and push buttons per the manufacturer's requirements. Contact Aaron Guilbault at (920) 728-1792 for acceptable mounting heights based on the field conditions encountered prior to mounting any equipment on the light poles (Poles type 3).

D Measurement

The department will measure Solar Powered Rectangular Rapid Flashing Beacon (RRFB) With Pedestrian Activation as a single complete lump sum unit of work, completed in accordance to the contract and accepted.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---|------|
| SPV.0105.01 | Solar Powered Rectangular Rapid Flashing Beacon (RRFB) With Pedestrian Activation | LS |

Payment is full compensation for furnishing and installing the Solar Powered Rectangular Rapid Flashing Beacon (RRFB) With Pedestrian Activation including wire and all necessary mounting hardware and appurtenances.

55. Removing Lighting Conduit and Wire, Item SPV.0105.02.

A Description

Remove existing street light conduit, pull boxes, wiring and other miscellaneous related items within the project limits and in accordance to standard spec 204.

B Materials

Use backfill material in accordance to standard spec 209.

C Construction

Remove the existing street lighting conduit, pull boxes, wiring and other miscellaneous related items; and dispose of all materials outside of the right-of-way in accordance to standard specs 204 and 638.3. All items removed shall be the property of the contractor and shall be removed from the construction site and disposed of properly.

D Measurement

The department will measure Removing Lighting Conduit and Wire by the lump sum unit of work, approved by the City of Beaver Dam, and acceptably completed.

E Payment

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|------------------------------------|------|
| SPV.0105.02 | Removing Lighting Conduit and Wire | LS |

Payment is full compensation for removal and disposal.

56. Abandon/Remove Existing Sanitary Pipe or Structure, Item SPV.0105.03; Abandon/Remove Existing Water Pipe or Structure, Item SPV.0105.04.

A Description

Abandon and/or removing the existing sanitary sewer and water facilities as shown in the plans and hereinafter provided.

B (Vacant)

C Construction

C.1 Abandon/Remove Sanitary Sewer Facilities

The price for this item shall include the cost of furnishing all necessary labor, materials, equipment, excavation, salvage, proper disposal of excess material, sheeting, shoring, dewatering, backfilling, compaction, and all related work to dismantle or remove the existing manholes, to bulkhead each end of the abandoned pipe, to remove the pipe, to completely fill the pipe with cellular concrete, all as stated herein and according to the Standard Specifications for Sewer and Water Construction in Wisconsin.

Verify as to whether-or-not the city desires to inventory any of the castings and/or covers on the existing sanitary manholes. If not, properly dispose of these items. If the city desires to keep these items, carefully remove the existing manhole castings and covers, and deliver the same to the city garage, 640 S. Center Street, Beaver Dam, Wisconsin. Prior to delivery, contact the City Utility Director to schedule delivery and to allow city personnel to inspect the materials and determine which are suitable to be delivered.

Remove completely all existing facilities that are in conflict with the new facilities and/or are located within the excavation/trench limits of the new facilities.

The existing sanitary pipes that are not in conflict with or located within the excavation limits of the new facilities, can be either completely removed or bulkheaded and completely filled with cellular concrete, at the contractor's option. The bulkhead shall consist of an 8-inch thick solid concrete wall, or other method as approved by the City Utility Director.

C.2 Abandon/Remove Water Facilities

The unit price for this item shall also include the cost of furnishing all necessary labor, materials, equipment, excavation, salvage, proper disposal of excess material, sheeting, shoring, dewatering, backfilling, compaction, and all related work to dismantle or remove the existing structures, valve boxes, hydrants, to bulkhead each end of the abandoned pipe, to remove the pipe, to completely fill the pipe with cellular concrete, all as stated herein and according to the Standard Specifications for Sewer and Water Construction in Wisconsin.

Verify as to whether-or-not the city desires to inventory any of the castings, covers, valve boxes, and/or hydrants. If not, properly dispose of these items. If the city desires to keep these items, carefully remove the existing structures, and deliver the same to the city garage, 640 S. Center Street, Beaver Dam, WI. Prior to delivery, contact the City Utility Director to schedule delivery and to allow city personnel to inspect the materials and determine which are suitable to be delivered.

All existing facilities that are in conflict with the new facilities and/or are located within the excavation/trench limits of the new facilities shall be completely removed.

The existing water pipes that are not in conflict with or located within the excavation limits of the new facilities, can be either (1) completely removed or (2) bulkhead and completely filled with cellular concrete, at the contractor's option. The bulkhead shall consist of an 8-inch thick solid concrete wall, or other method as approved by the City Utility Director.

Remove existing valve boxes and/or valve manholes to a point 4 feet below grade (minimum). Completely fill the remaining void with compacted granular backfill.

Remove fire hydrants to the top of elbow, bulkhead the remaining pipe at the elbow, and completely fill the void with compacted granular backfill.

D Measurement

The department will measure Abandon/Remove Existing Sanitary Pipe or Structure; and Abandon/Remove Existing Water Pipe or Structure by the lump sum unit of work, approved by the City of Beaver Dam, and acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--|------|
| SPV.0105.03 | Abandon/Remove Existing Sanitary Pipe or Structure | LS |
| SPV.0105.04 | Abandon/Remove Existing Water Pipe or Structure | LS |

Payment is full compensation for providing all labor and materials for furnishing all pipe or structure abandonment or removal; for furnishing all excavating, for sheeting and shoring; for dewatering; for backfilling and compacting; for providing granular backfill material; for removing sheeting and shoring; and for restoring the worksite.

57. Powder Coating Steel Traffic Signal Poles Type 3, Item SPV.0105.05.

A Description

This special provision describes furnishing powder coating materials, preparing galvanized steel surfaces for powder coating, and applying powder coating to galvanized steel traffic signal Poles Type 3.

B Materials

Furnish an exterior weather-resistant powder coating, black color (RAL 9017), 80-90% gloss, meeting the following requirements:

| Test | Method | Requirement |
|---------------------------------|------------|---------------------------------|
| Film thickness | --- | 4 mils |
| Gloss according to gardener 60° | ASTM D523 | 80-90° |
| Pencil hardness | ASTM B3363 | 2H (min) |
| Acid salt spray resistance | ASTM G85 | Max. undercutting 1 mm/0.04 in. |

Clean galvanized steel surfaces and prepare according to the manufacturer's recommendations for galvanized steel before powder coating.

Apply powder coating and bake according to the manufacturer's recommendations.

Determine the dry film thickness by using magnetic film thickness gauges calibrate fro dry film thickness measurement according to SSPC-PA 2. The engineer will reject the powder coating if minimum film thicknesses are less than specified.

C Construction

The following signal equipment locations are intended to be covered under this special provision:

Maple Avenue and Center Street : SB1, SB5
Front Street and Center Street : SB11, SB16
Front Street and Spring Street : SB17, SB22
Undistributed (1)

C.1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and conditions of materials is in conformance with these specifications. If the coating is damaged, repair or replace equipment to the approval of the engineer at no additional cost. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during installation. No field welding, field cutting or drilling will be permitted without the approval of the engineer.

C.2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to coated surfaces, touch-up the surface in conformance with the manufacturer's recommendations. If damage is excessive, the equipment shall be replaced at no additional cost. Provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

D Measurement

The department will measure Powder Coating Steel Traffic Signal Poles Type 3 as a single complete lump sum unit of work, completed in accordance to the contract and accepted.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--|------|
| SPV.0105.05 | Powder Coating Steel Traffic Signal Poles Type 3 | LS |

Payment is full compensation for cleaning the steel; furnishing and applying the powder coating materials; delivery, storing, and performing field repairs.

58. Concrete Pavement Joint Layout, Item SPV.0105.06.

A Description

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

B (Vacant)

C Construction

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete to prevent uncontrolled cracking. Submit a joint layout design to the engineer before paving each intersection. Mark the location of all concrete joints in the field. Follow the plan details for joints in concrete making adjustments as required to fit field conditions.

D Measurement

The department will measure Concrete Pavement Joint Layout as a single lump sum unit of work for all joint layout designs and marking, acceptably completed under the contract.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--------------------------------|------|
| SPV.0105.06 | Concrete Pavement Joint Layout | LS |

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

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

59. Modified Bridge Approach, Item SPV.0105.07.**A Description**

Construct a modified bridge approach connection to the north end of Structure B-14-102 on S. Center Street.

B Materials

Furnish all materials and equipment that is needed to install the modified bridge approach as shown in the plan details.

Furnish concrete pavement in accordance to standard spec 415.

Provide new expansion joints and hot poured joint sealant.

C Construction

Construct the modified bridge approach as detailed in the construction details.

Protect the existing bridge structure from any damage. Do not disturb any of the existing structural backfill in this area except as shown on the plan details.

D Measurement

The department will measure Modified Bridge Approach as a single complete lump sum unit of work, completed in accordance 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.0105.07 | Modified Bridge Approach | LS |

Payment is full compensation for preparing the surface for paving, for furnishing and installing the concrete pavement, expansion joint felt, and the hot poured joint sealant.

60. Remove Planter, Item SPV.0105.20.

A Description

This special provision describes removing a raised planter area on the west side of S. Spring Street, just south of Front Street.

B Materials

For the removal of the raised planter, furnish granular backfill according to the pertinent requirements of standard spec 209. This material is incidental to the work and will not be paid for separately.

C Construction

Remove the raised planter including the rock walls, a concrete footing, approximately 12" x 12", under the rock walls, and all plant and soil materials lying within those walls to the depth of the subgrade. Any areas where material is removed to a depth below the subgrade shall be backfilled with properly compacted granular backfill.

D Measurement

The department will measure Remove Planter as a single lump sum unit of work, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|----------------|------|
| SPV.0105.20 | Remove Planter | LS |

Payment is full compensation for removing and disposing of the rock walls, the concrete footings under the rock wall, the plants and soil within the rock wall, and backfilling with granular backfill, if needed. Removal of the tree, the signal and light poles and bases, and any signs and sign supports will be paid for under the corresponding bid items.

61. Relocate Decorative Pillars and Fence, Item SPV.0105.21.

A Description

This special provision describes removing and reinstalling decorative pillars and fencing in a different location.

B Materials

Furnish any items that cannot be salvaged from the existing pillars and fence and which are needed to reinstall the pillars and fence as shown in the plan details. Any supplemental material needed for the pillars and fence shall match the existing facility.

For fencing use Elite Fence Products Inc., Ornamental Fence System, Commercial Aluminum Exposed Screw EFF-20 design, including pickets, rails, posts and hardware. The Fence system shall be coated black with an electrostatically applied SUPER

DURABLE Polyester powder coat finish that exceeds American Architectural Manufacturers Association AAMA 2604. New fence shall meet type 6063 T6 aluminum.

For brick and block in the pillars, use reclaimed brick and block or brick and block stockpiled by the City of Beaver Dam. Contact Ritchie Piltz at (920) 887-4600 Extension 14 to arrange for viewing and for acquiring the needed supply.

C Construction

Reconstruct the pillars and fence as shown in the plan details. Coordinate locations with the city and as determined by the engineer in the field.

D Measurement

The department will measure Relocate Decorative Pillars and Fence as a single lump sum unit of work, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---------------------------------------|------|
| SPV.0105.21 | Relocate Decorative Pillars and Fence | LS |

Payment is full compensation for removing and salvaging any of the existing decorative pillars, standard concrete caps, and fence in the area north of bridge B-14-102 and south of Front Street that are in the way of the required construction operations, storing the salvaged materials, and replacing the pillars and fence in the new locations as shown in the plan details. Any work or materials required to reconfigure the pillars and fencing, to install intermediate post bases, to provide attachment to bases or sidewalk and to place them in the new locations will be incidental to this item.

62. Temporary Sidewalk, Item SPV.0165.01.

A Description

This special provision describes providing, maintaining, and removing temporary sidewalk at locations shown in the plan details. Additional locations may be required as directed by the engineer.

B Materials

Furnish a hard temporary surface material consisting of asphaltic surface temporary in accordance to standard spec 465.2, any grade of concrete in accordance to standard spec 602.2, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable.

C Construction

Install, maintain, relocate (if necessary to accommodate work or operations), and remove temporary surface material at Temporary Sidewalk location as shown on the plans and as directed by the engineer. Level and compact the surface prior to placing temporary surface

material. The Temporary Sidewalk shall have a minimum clear width of 4 feet; be located outside the immediate work area, as approved by the engineer; and meet the requirements of the current Americans with Disabilities Act Accessibility Guidelines (ADAAG). Reconstruct Temporary Crosswalk when disturbed by construction operations or utility trenches. Remove Temporary Sidewalks immediately prior to constructing the permanent sidewalks that will replace them.

D Measurement

The department will measure Temporary Sidewalk by the square foot, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--------------------|------|
| SPV.0165.01 | Temporary Sidewalk | SF |

Payment is full compensation for providing and installing the required materials; for preparing the foundation; for furnishing, placing, maintaining, and removing temporary surface material; and for reconstructing or relaying the temporary surface material.

63. Stamping Concrete Sidewalk 5-Inch, Item SPV.0165.02.

A Description

This section describes stamping concrete used to construct work under other contract bid items as well as any special materials and special construction techniques associated with stamping the decorative concrete sidewalks. Construct Stamping Concrete Sidewalk 5-Inch, in accordance to standard spec 602, as shown in the plan details, and as hereinafter provided.

B Materials

Stamping Concrete Sidewalk 5-Inch shall be constructed in conformance with standard spec 405. The color shall be WisDOT red. Use a texture stamp pattern similar to a running bond brick pattern.

C Construction

Conform to standard spec 405.3.

Conform to standard spec 602.3 except as hereinafter modified:

Stamp the concrete so that the length of the “bricks” is perpendicular to the curb line. The pattern should closely match the pattern used in the 200 block of Front Street.

The contractor shall supply the city with a sample of the stamping pattern to be used on the concrete sidewalk for their approval at least two weeks prior to the anticipated placement of the Colored and Stamped Concrete Sidewalk 5-Inch.

D Measurement

The department will measure Coloring and Stamping Concrete Sidewalk 5-Inch by the square foot, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|-----------------------------------|------|
| SPV.0165.02 | Stamping Concrete Sidewalk 5-Inch | SF |

Payment is full compensation for providing all necessary materials for stamping the Concrete Sidewalk 5-inch in locations indicated in the plan. Payment for the Coloring Concrete and Concrete Sidewalk 5-Inch aspects of this work is paid for under the respective standard bid items.

64. Sanitary Manhole (Type 1), Item SPV.0200.01 Sanitary Manhole (Type 3), Item SPV.0200.02.

A Description

Furnish and install sanitary sewer manholes as shown in the plans and hereinafter provided.

B Materials

B.1 Precast Manhole Sections

Precast concrete manhole sections shall have a minimum inside diameter of 48 inches (Type 1) or 72 inches (Type 3). Clear opening shall match dimensions of castings. The cone section shall be the eccentric type with a minimum clear opening of 24 inches. Clear opening shall match dimensions of castings. Compressive strength of the concrete shall be 4000 psi and shall conform to ASTM C478. Wall thicknesses of manholes will vary with diameter in conformance with ASTM C76, Class B concrete tongue and groove joint pipe. Larger diameter manholes (7 feet +) shall have wall thickness a minimum of one-twelfth the inside diameter of the manhole as specified in ASTM C478.

Steel reinforcement (sq. in./lin. ft.) shall not be less than 0.0025 times the inside diameter of the manhole in inches.

B.2 Steps

Steps shall be constructed of a 1/2 inch diameter, Grade 60 reinforcing steel bar conforming to ASTM A615 completely encased in polypropylene conforming with ASTM D4101 to obtain a minimum thickness of 1-1/8 inch and minimum width of 12 inches. They shall be securely and permanently set in the manhole wall. Steps shall be set at 16 inches on center and have a 5-3/4 inch projection from the wall. Steps shall conform to ASTM F783.

B.3 Manhole Joint Materials

Sanitary sewer manhole joint materials shall be plastic gasket material or butyl rubber gasket material. Plastic gaskets shall be preformed, high adhesion material, packaged ready for use between protective paper strips conforming to Federal Spec SS-S-00210, Type I, Rope Form; Ram-Nek by K.T. Snyder Company, Inc.; Kent Seal No. 2 or equal. Butyl rubber gaskets shall be preformed, high adhesion material, packaged ready for use between protective paper strips, conforming to Federal Spec SS-S-210A, Rope Form; by Press Seal Gasket Corporation or equal.

B.4 Waterstop Seals

Waterstop seals shall be flexible, watertight, rubber wedge ring or O-ring compression seals for pipe entrance holes. Wedge ring type shall be Press-Wedge II by Press-Seal Gasket Corporation, PSX Boot by Press Seal Gasket Corporation, pipe to manhole connector by KOR-N-SEAL or equal. O-ring type shall have cast iron compression flange, Res-Seal by Scales Manufacturing Corporation or equal.

B.5 Adjustment Rings

Adjustment rings shall be concrete with steel reinforcement in conformance with ASTM C478. Rings shall be either 2 inches or 4 inches in thickness. The manholes shall be built so that a minimum of two 2 inch rings are installed for adjustment. A maximum of 12 inches of adjustment will be allowed, but the top two rings shall be of 2 inches thickness.

Precompressed butyl gasket, 3/8 inch x 3-1/2 inch shall be used between the manhole, manhole casting, and all adjustment rings. Butyl material shall be E-Z stik or equal. Mortar shall not be used between these structures for adjustment, however mortar shall be used to provide a smooth trowel type finish to the interior surface of the joints between the manhole, adjusting rings and casting.

B.6 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 General

All lift holes on sanitary sewer manholes shall be sealed watertight.

Invert channels shall be smooth and accurately shaped and in accordance to the contract drawings.

No horizontal surfaces shall be left on the inside of the manhole. The bench shall be shaped to drain into the floor channel.

All sanitary sewer pipe entering or leaving the structure shall be fitted with rubber waterstop seals where they pass through the manhole wall.

C.2 Drop Manhole Connections

Sanitary sewer manhole drop connections shall be outside drops constructed according to detail drawings. The drop assembly shall consist of a tee or wye connecting to the inflowing sewer, a drop pipe of the same diameter as the inflowing sewer, and a 90-degree bend at the bottom, all encased in concrete.

C.3 Cleaning

The contractor is responsible to see that manholes and sewer lines are free of dirt, gravel and debris, from the construction operations, at all times. The city will notify the contractor of any debris identified, and if the contractor fails to properly clean said debris, the city will charge the contractor for the cleaning of any manholes and sewer lines on this project during the progress of construction and until final acceptance of the improvements.

Upon completion of the work, thoroughly clean out all manholes and pipe along the entire length of the project before leaving the construction site.

C.4 Testing

Conduct vacuum testing on manholes using vacuum testing equipment acceptable to city. Isolate manhole to be tested by plugging inlet and outlet pipes with inflatable stopper or other suitable test plugs. Securely brace plugs to avoid plugs being drawn into manhole. Plug lift holes with a non-shrink grout. Place vacuum test equipment inside of top cone section and conduct vacuum test in accordance to manufacturer's recommendations. Operate vacuum pump until 10 inches of mercury is obtained. Shut off vacuum pump and measure time for vacuum to drop from 10 to 9 inches of mercury. Manhole test is acceptable if the time exceeds the values in the table below:

| <u>Depth/Feet</u> | <u>Test Time/Seconds</u> |
|-------------------|--------------------------|
| 8 | 20 |
| 10 | 25 |
| 12 | 30 |
| 14 | 35 |
| 16 | 40 |
| 18 | 45 |
| 20 | 50 |
| 22 | 55 |
| 24 | 59 |
| 26 | 64 |
| 28 | 69 |
| 30 | 74 |

If test fails, repair or seal manhole using non-shrink gout or other materials that are approved. Retest until an acceptable test is obtained. Test may be conducted before or after backfilling.

D Measurement

The department will measure Sanitary Manhole (Type) by the vertical feet, approved by the City of Beaver Dam, acceptably completed and shall be measured from the flowline or invert of the outflowing pipe to the top of the structure (top of frame and cover minus 1.25 feet).

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---------------------------|------|
| SPV.0200.01 | Sanitary Manhole (Type 1) | VF |
| SPV.0200.02 | Sanitary Manhole (Type 3) | VF |

Payment is full compensation for providing all labor and materials, including precast concrete manhole sections, base, cone, adjustment rings, steps, waterstop seals, couplings, and other required fittings; for outside manhole drop connections, pipe, and concrete encasement; for furnishing all excavating, except rock excavation; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for constructing the manhole; for backfilling and compacting; for providing granular backfill material, including bedding material; for removing sheeting and shoring; for testing; for cleaning out the manhole and adjoining pipes and restoring the worksite.

**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 1 (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 1 (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 PROGRAM

1. Description

General

- a. The disadvantaged business enterprise (DBE) requirements of 49 CFR Part 26 apply to this contract. The department's DBE goal is shown on the cover of the bidding proposal. The contractor can meet the specified contract DBE goal by procuring services or materials from a DBE or by subcontracting work to a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.
- b. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
 - i. Produce accurate and complete quotes.
 - ii. Understand highway plans applicable to their work.
 - iii. Understand specifications and contract requirements applicable to their work.
 - iv. Understand contracting reporting requirements.
- c. The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.
- d. For information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at:

<http://www.dot.wisconsin.gov/business/engrserv/dbe-main.htm>

2. Definitions

- a. Interpret these terms, used throughout this additional special provision, as follows:
 - i. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
 - ii. **DBE:** A disadvantaged business enterprise (DBE) certified as a DBE by the department and included on the department's list of certified DBE's who are determined to be ready, willing and able.
 - iii. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
 - iv. **Discretionary Goal:** A contractor assigned DBE goal, typically abbreviated as "Disc" on the cover of the Highway Work Proposal, which is enforced as committed.
 - v. **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.
 - vi. **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.
 - vii. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal, including projects with discretionary goals. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually commits to DBE participation at or above the bid percentage, or certifies that they have utilized

comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

4. Department's DBE Evaluation Process

a. Documentation Submittal

Within 10 business days after the notification of contract award, the contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506] and all necessary attachment A forms, as well as, Good Faith Waiver Form [DT1202] and supporting documentation as necessary. If the contractor fails to furnish the required forms within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

i. Bidder Meets DBE Goal

If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage achieved. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

ii. Bidder Does Not Meet DBE Goal

- (1) If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Waiver Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith waiver request.
- (2) The department will review the bidder's good faith waiver request and notify the bidder of one of the following:
 - a. If the department grants a good faith waiver, the bid is eligible for contract execution with respect to DBE commitment.
 - b. If the department rejects the good faith waiver request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith waiver request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

5. Department's Criteria for Good Faith Effort

The Code of Federal Regulations {CFR}, 49 CFR Part 26-Appendix A, is the guiding regulation concerning good faith efforts. However, the federal regulations do not define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own process when making a determination of good faith.

- a. The department will only grant a good faith waiver if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith waiver will be granted. The bidder must demonstrate, on the DT1202 that they have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

- b. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.
- c. Prime Contractors should:
 - i. Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT-approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
 - ii. Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, **as required by federal rules**. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
 - (1) Solicit quotes through all reasonable and available means from certified DBE firms who match 'possible items to subcontract' and send copies to DBESS office, highlighting areas in which you are seeking quotes. Email is acceptable.
 - (2) SBN is the preferred outreach tool. <https://www.bidx.com/wi/main>. Other acceptable means include postal mail, email, fax, phone call.
 - a. Primes must ask DBE firms for a response in their solicitations. *See Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
 - b. Solicit quotes at least 10 calendar days prior to the letting date {ideally two Fridays before the letting} to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking them if they need help in putting together a quote, or helping to arrange for equipment needs, or solve other problems.
 - (3) Second solicitation should take place within 5 days
 - a. An email solicitation is highly recommended for this second solicitation
 - (4) 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.
 - (5) When potential exists, advise interested DBE firms on how to obtain bonding, line of credit or insurance as may be requested.
 - (6) 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. Copy of the DBE quotes
 - e. Signed copy of Bid Express SBN Record of Subcontractor Outreach Effort.
- d. Evaluate DBE quotes as documentation is critical if the prime does not utilize the DBE firm's quote for any reason.
 - i. Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, **a discussion with the DBE firm** regarding its

- capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE directly regarding their ability to perform the work indicated in the UCP directory as their work area [NAICS code]; only the work area and/or NAICS code listed in the UCP directory will be counted for DBE credit. Documentation of the conversation is required.
- ii. In striving to meet a DBE conscious contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
 - iii. **Special Circumstance:** Evaluation of DBE quotes with tied bid items. "Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as 'all or none' quote to the prime." When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms' quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.
 - (1) Compare bid items common to both quotes, noting the reasonableness in the price comparison.
 - (2) 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.
- e. After notification of contract award, submit '**Commitment to Subcontract**' form within the time period specified in the contract.
 - i. Provide the following information along with department form DT1202:
 - (1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact. A printed copy of SBN solicitation is acceptable.
 - (2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
 - (3) Photocopies or electronic copies of all written solicitations to DBE's.
 - (4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
 - (5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.
 - f. The department's DBE Support Services Office is available by phone, email or in writing to request assistance in meeting the DBE goal:

DBE Support Services Office
6150 Fond du Lac Ave.
Milwaukee, WI 53218
Phone: 414-438-4583 / 608-266-6961
Fax: 414-438-5392
E-mail: DOTDBESupportServices@dot.wi.gov

6. Bidder's Appeal Process

- a. A bidder can appeal the department's decision to deny the bidder's good faith waiver request. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so

requested. Failure to appeal within 7 calendar days after receiving the department's written notice of rejection of a good faith waiver request under constitutes a forfeiture of the bidder's right of appeal. If the bidder does not appeal, the department may declare the bid ineligible for execution.

- b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 7 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

7. Department's Criteria for DBE Participation

Department's DBE List

- a. The department maintains a DBE list on the department's website at <http://app.mylcm.com/wisdot/Reports/WisDotUCPDirectory.aspx>
- b. The DBE office is also available to assist at 414-438-4583 or 608-266-6961.

8. Counting DBE Participation

Assessing DBE Work

- a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:
- b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.
- c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.
- d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.
- e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.
- f. It is the prime contractor's responsibility to determine the DBE's ability to perform the work with the use of the UCP directory.

9. Commercially Useful Function

- a. The department counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- b. A DBE is performing a commercially useful function if the following conditions are met:
- c. For contract work, the DBE is responsible for executing a distinct portion of the contract work and it is carrying out its responsibilities by actually performing, managing, and supervising that work.
- d. For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

10. Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at

<http://www.dot.wisconsin.gov/business/engrserv/docs/dbe-trucking-notice.pdf>

11. Manufacturers and Suppliers

The department counts material and supplies a DBE provides under the contract. The department will give full credit toward the DBE goal if the DBE is a manufacturer of those materials or supplies. The department will give 60 percent credit toward the DBE goal if the DBE is merely a supplier of those materials or supplies. It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

12. DBE Prime

If the prime contractor is a DBE, the department will only count the work the contractor performs with its own forces, the work DBE subcontractors perform, and the work DBE suppliers or manufacturers perform.

13. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces.

14. 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. On every other project that the mentor protégé team identifies itself on.
- c. For no more than one half of the total contracted DBE goal on any WisDOT project.

15. DBE Replacement

In the event a Prime Contractor needs to replace a DBE firm originally listed on the approved DBE Commitment Form DT1506, the Prime Contractor must comply with the department's DBE Replacement Policy located on the DBE page on the following web site:

<http://www.dot.wi.gov/business/dbe/docs/policyreplacingdbe.pdf>

16. Changes to the approved DBE Commitment Form DT1506

If there are any changes to the approved Commitment to Subcontract to DBE Form DT1506, the prime contractor must submit a revised DBE Commitment Form DT1506 and relevant attachment A(s) to the DBE Programs Office within 5 business days.

17. Contract Modifications

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors, that were committed to equal work items, in the original contract.

18. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

APPENDIX A
Sample Contractor Solicitation Letter Page 1
This sample is provided as a guide not a requirement

GFW SAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: REQUEST FOR DBE QUOTES
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <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 alternative's 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 QUOTATION

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

- .. Yes, we will be quoting on the projects and items listed below
- .. No, we are not interested in quoting on the letting or its items referenced below
- .. Please take our name off your monthly DBE contact list
- .. We have questions about quoting this letting. Please have some one contact me at this number

Prime Contractor 's Contact Person

| |
|--------------|
| |
| Phone: _____ |
| Fax: _____ |
| Email: _____ |
| _____ |

DBE Contractor Contact Person

| |
|-------------|
| |
| Phone _____ |
| Fax _____ |
| Email _____ |
| _____ |

Please circle the jobs and items you will be quoting below

| Proposal No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------|---|---|---|---|---|---|---|
| County | | | | | | | |

WORK DESCRIPTION:

| | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|
| Clear and Grub | X | | X | X | | X | X |
| Dump Truck Hauling | X | | X | X | | X | X |
| Curb & Gutter/Sidewalk, Etc. | X | | X | X | | X | X |
| Erosion Control Items | X | | X | X | | X | X |
| Signs and Posts/Markers | X | | X | X | | X | X |
| Traffic Control | | X | X | X | | X | X |
| Electrical Work/Traffic Signals | | X | X | X | | X | |
| Pavement Marking | | X | X | X | X | X | X |
| Sawing Pavement | | X | X | X | X | X | X |
| QMP, Base | X | X | | X | X | X | X |
| Pipe Underdrain | X | | | X | | | |
| Beam Guard | | | | X | X | X | X |
| Concrete Staining | | | | | | | X |
| Trees/Shrubs | X | | | | | | X |

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternative's are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

APPENDIX B
BEST PRACTICES FOR PRIME CONTRACTOR & DBE
SUBCONTRACTOR GOOD FAITH EFFORT

This list is not a set of requirements; it is a list of potential strategies

Primes

- Ø Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance
- Ø Participate in speed networking and mosaic exercises as arranged by DBE office
- Ø Host information sessions not directly associated with a bid letting;
- Ø Participate in a formal mentor protégé or joint venture with a DBE firm
- Ø Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings
- Ø Facilitate a small group DBE ‘training session’ Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods
- Ø Encourage subcontractors to solicit and highlight DBE participation in their quotes to you
- Ø Quality of communication, not quantity creates the best results. Contractors should do as thorough a job as possible in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- Ø DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Ø Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Ø Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list, and bid tabs at a minimum.
- Ø Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation-related projects of similar size and scope, firm expertise and staffing.
- Ø Participate in DBE office assessment programs
- Ø Participate on advisory and mega-project committees
- Ø Sign up to receive the DBE Contracting Update
- Ø Consider membership in relevant industry or contractor organizations
- Ø Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX C

Types of Efforts considered in determining GFE

This list represents concepts being assessed; analysis requires additional steps

1. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by WisDOT to inform DBEs of contracting and subcontracting opportunities;
2. Whether the contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract was being solicited, in sufficient time to allow the DBEs to participate effectively;
3. Whether the contractor followed up initial solicitations of interest by contacting DBEs to determine if the DBEs were interested; returned the phone calls of interested DBE firms.
4. Whether the contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goal;
5. Whether the contractor provided interested DBEs with adequate information about the plans, specifications and requirements of the contract;
6. Whether the contractor negotiated in good faith with interested DBEs, not rejected DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities;
7. Whether the contractor made efforts to assist interested DBEs in being more competitive.
8. Whether the contractor effectively used the services of available minority community organizations: minority contractors groups, local, state, and Federal minority business assistance offices, and other organizations that provide assistance to small businesses and DBE firms.
9. Whether Prime used CRCS to identify DBE who specialize in relevant work areas.
10. Whether the contractor used available resources including contacting the DBE office, using WisDOT's website
11. Whether the contractor returned calls of firms expressing interest in a timely manner.

APPENDIX D
Good Faith Effort Evaluation Guidance
Excerpt from Appendix A of 49 CFR Part 26

APPENDIX A TO PART 26 -- GUIDANCE CONCERNING GOOD FAITH EFFORTS

- I. When, as a recipient, you establish a contract goal on a DOT assisted contract, a bidder must, in order to be responsible and/or responsive, make good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.
- II. In any situation in which you have established a contract goal, part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, it is up to you to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made. The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call: meeting quantitative formulas is not required.
- III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.
- IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.
 - A. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
 - B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 - C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

- D.
 - (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
 - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- E. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non solicitation of bids in the contractor's efforts to meet the project goal.
- F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
- G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- V. In determining whether a bidder has made good faith efforts, you may take into account the performance of other bidders in meeting the contract. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts.

Appendix E

Small Business Network [SBN] Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
 - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for completion at a later time.
2. Create sub-quotes for the subcontracting community:
 - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
 - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
 - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE-preferred request
 - d. Add attachments to sub-quotes
3. View sub-quote requests & responses:
 - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
 - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing
4. View Record of Subcontractor Outreach Effort:
 - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
 - b. Easily locate pre-qualified and certified small and disadvantaged businesses
 - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively
 - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency)

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs.

1. View and reply to sub-quote requests from primes:
 - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests, or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
 - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
 - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes
 - c. Add attachments to a sub-quote
3. Create and send unsolicited sub-quotes to specific contractors:
 - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
 - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on an per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder
 - c. Add attachments to a sub-quote
 - d. Add unsolicited work items to sub-quotes that you are responding to
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to **www.bidx.com** and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.
 - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

450.3.2.1 General

Replace the entire text with the following effective with the January 2015 letting:

- (1) 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 should place HMA pavement for projects on or north of STH 29 between May 1 and October 15 inclusive and for projects south of STH 29 between April 15 and November 1 inclusive. Notify the engineer at least one business day before paving.
 - (2) Unless the contract specifies otherwise, conform to the following:
 - Keep the road open to all traffic during construction.
 - Prepare the existing foundation for treatment as specified in 211.
 - Incorporate loose roadbed aggregate as a part of preparing the foundation, in shoulder construction, or dispose of as the engineer approves.
 - (3) Place asphaltic mixture only on a prepared, firm, and compacted base, foundation layer, or existing pavement substantially surface-dry and free of loose and foreign material. Do not place over frozen subgrade or base, or where the roadbed is unstable.
-

450.5 Payment

Replace the entire text with the following effective with the January 2015 letting:

- (1) All costs of furnishing, maintaining, and operating the truck scale or other weighing equipment and furnishing the weigh tickets are incidental to the contract.
 - (2) Nonconforming material allowed to remain in place is subject to price adjustment under 105.3.2.
 - (3) Full-depth sawing to remove integrally placed safety edge where not required is incidental to the contract.
 - (4) The contractor is responsible for pavement performance. If because of an excusable compensable delay under 108.10.3, the engineer directs the contractor to pave when the temperature is less than 36 F for the upper layer or less than 32 F for lower layers, the department:
 - Will relieve the contractor of responsibility for damage and defects the engineer attributes to cold weather paving.
 - Will not assess disincentives for density or ride.
-

455.3.2.1 General

Replace paragraphs one and two with the following effective with the January 2015 letting:

- (1) Apply tack coat only when the air temperature is 32 F or more unless the engineer approves otherwise in writing. Before applying tack coat ensure that the surface is dry and reasonably free of loose dirt, dust, or other foreign matter. Do not apply if weather or surface conditions are unfavorable or before impending rains.
- (2) Use tack material of the type and grade the contract specifies. The contractor may, with the engineer's approval, dilute tack material as allowed under 455.2.4. Provide calculations using the asphalt content as-received from the supplier and subsequent contractor dilutions to show that as-placed material has 50 percent or more residual asphalt content. Apply at 0.050 to 0.070 gallons per square yard, after dilution, unless the contract designates otherwise. The engineer may adjust the application rate based on surface conditions. Limit application each day to the area the contractor expects to pave during that day.

460.2.2.3 Aggregate Gradation Master Range

Replace paragraph one with the following effective with the December 2014 letting:

- (1) Ensure that the aggregate blend, including recycled material and mineral filler, conforms to the gradation requirements in table 460-1. The values listed are design limits; production values may exceed those limits.

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

| SIEVE | PERCENTS PASSING DESIGNATED SIEVES | | | | | | |
|---------------|------------------------------------|-----------|-----------|---------------------|---------------------|-------------|-------------|
| | NOMINAL SIZE | | | | | | |
| | 37.5 mm | 25.0 mm | 19.0 mm | 12.5 mm | 9.5 mm | SMA 12.5 mm | SMA 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 | 58 - 72 | 90 - 100 |
| 4.75-mm | — | — | — | — | 90 max | 25 - 35 | 35 - 45 |
| 2.36-mm | 15 – 41 | 19 - 45 | 23 - 49 | 28 - 58 | 20 - 65 | 15 - 25 | 18 - 28 |
| 75-µm | 0 – 6.0 | 1.0 - 7.0 | 2.0 - 8.0 | 2.0 - 10.0 | 2.0 - 10.0 | 8.0 - 12.0 | 10.0 - 14.0 |
| % MINIMUM VMA | 11.0 | 12.0 | 13.0 | 14.0 ^[1] | 15.0 ^[2] | 16.0 | 17.0 |

^[1] 14.5 for E-0.3 and E-3 mixes.

^[2] 15.5 for E-0.3 and E-3 mixes.

460.3.4 Cold Weather Paving

Add a new subsection as follows effective with the January 2015 letting:

460.3.4 Cold Weather Paving**460.3.4.1 Cold Weather Paving Plan**

- (1) Submit a written cold weather paving plan to the engineer at the preconstruction meeting. In that plan outline material, operational, and equipment changes for paving when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F. Include the following:
- Use a department-accepted HMA mix design that incorporates a warm mix additive from the department's approved products list. Do not use a foaming process.
 - Use additional rollers.

- (2) Engineer written acceptance is required for the cold weather paving plan. Engineer acceptance of the plan does not relieve the contractor of responsibility for pavement performance except as specified in 450.5(4).

460.3.4.2 Cold Weather Paving Operations

- (1) 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 40 F unless a valid engineer-accepted cold weather paving plan is in effect.
- (2) If the national weather service forecast for the construction area predicts ambient air temperature less than 40 F at the projected time of paving within the next 24 hours, confirm or submit revisions to a previously engineer-accepted cold weather paving plan for engineer validation. Upon validation of the plan, the engineer will allow paving for the next day. Once in effect, pave conforming to the engineer-accepted cold weather paving plan for the balance of that work day or shift regardless of the temperature at the time of paving.

460.4 Measurement

Add paragraph two as follows effective with the January 2015 letting:

- (2) The department will measure HMA Cold Weather Paving by the ton of HMA mixture for pavement placed conforming to an engineer-accepted cold weather paving plan.

460.5.1 General

Revise paragraph one as follows effective with the January 2015 letting:

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

| <u>ITEM NUMBER</u> | <u>DESCRIPTION</u> | <u>UNIT</u> |
|--------------------|--------------------------------|-------------|
| 460.1100 | HMA Pavement Type E-0.3 | TON |
| 460.1101 | HMA Pavement Type E-1 | TON |
| 460.1103 | HMA Pavement Type E-3 | TON |
| 460.1110 | HMA Pavement Type E-10 | TON |
| 460.1130 | HMA Pavement Type E-30 | TON |
| 460.1132 | HMA Pavement Type E-30X | TON |
| 460.1700 | HMA Pavement Type SMA | TON |
| 460.2000 | Incentive Density HMA Pavement | DOL |
| 460.4000 | HMA Cold Weather Paving | TON |

460.5.2.2 Disincentive for HMA Pavement Density

Revise paragraph two as follows effective with the January 2015 letting:

- (2) The department will not assess density disincentives for pavement placed in cold weather because of a department-caused delay as specified in 450.5(4).

460.5.2.4 Cold Weather Paving

Add a new subsection as follows effective with the January 2015 letting:

460.5.2.4 Cold Weather Paving

- (1) Payment for HMA Cold Weather Paving is full compensation for additional materials and equipment specified for cold weather paving under 460.3.4 including costs for preparing, administering, and following the contractor's cold weather paving plan.
- (2) If HMA pavement is placed under 460.3.4 and the HMA Cold Weather Paving bid item is not in the contract, the department will pay for the additional costs specified in 460.5.2.4(1) as extra work. The department will pay separately for HMA pavement under the appropriate HMA Pavement bid items.

465.2 Materials

Replace paragraph two with the following effective with the December 2014 letting:

- (2) Under the other section 465 bid items, the contractor need not submit a mix design. Furnish aggregates mixed with a type AC asphaltic material, except under the Asphaltic Curb bid item furnish PG58-28 asphaltic material. Use coarse and fine mineral aggregates uniformly coated and mixed with the asphaltic material in an engineer-approved mixing plant. The contractor may include reclaimed asphaltic pavement materials in the mixture.

Bid Items Added

Add the following new bid item effective with the January 2015 letting:

| <u>ITEM NUMBER</u> | <u>DESCRIPTION</u> | <u>UNIT</u> |
|--------------------|-------------------------|-------------|
| 460.4000 | HMA Cold Weather Paving | TON |

Errata

Make the following corrections to the standard specifications:

501.3.2.4.4 Water Reducer

Correct errata by deleting the reference to footnote 6 for grade D concrete.

- (1) Add a water reducing admixture conforming to 501.2.3. Determine the specific type and rate of use based on the atmospheric conditions, the desired properties of the finished concrete and the manufacturer's recommended rate of use. The actual rate of use shall at least equal the manufacturer's recommended rate, and both the type and rate used require the engineer's approval before use.

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.

ADDITIONAL SPECIAL PROVISION 9
Electronic Certified Payroll Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to submit certified payrolls electronically. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at: <http://www.dot.wi.gov/business/civilrights/laborwages/index.htm>

(2) Ensure that all tiers of subcontractors, as well as all trucking firms, submit their weekly certified payrolls electronically through CRCS. These payrolls 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 payrolls. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Tess Mulrooney at 608-267-4489 to schedule the training.

(4) The department will reject all paper submittals of forms DT-1816 and DT-1929 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 data from their computer system into CRCS should have their payroll coordinator send several sample electronic files to Tess two months before a payroll needs to be submitted. Not every contractor's payroll system is capable of producing export files. For details, see pages 17-22 of the CRCS System Background Information manual available online on the Labor, Wages, and EEO Information page at: <http://www.dot.wi.gov/business/civilrights/laborwages/docs/crc-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.

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.

DECEMBER 2013

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.

<http://roadwaystandards.dot.wi.gov/standards/cmm/cm-02-28.pdf#cm2-28.5>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<http://roadwaystandards.dot.wi.gov/standards/forms/ws4567.doc>

Effective with September 2004 Letting

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS AND TRANSPORTATION FACILITIES**

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

- I. Wage Rates, Hours of labor and payment of Wages
- II. Payroll Requirements
- III. Postings at the Site of the Work
- IV. Affidavits
- V. Wage Rate Redistribution
- VI. Additional Classifications

I. WAGE RATES, HOURS OF LABOR AND PAYMENT OF WAGES

The schedule of "Minimum Wage Rates" attached hereto and made a part hereof furnishes the prevailing wage rates that have been determined pursuant to Section 103.50 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the various laborers, workers, mechanics and truck drivers employed by contractors and subcontractors on the construction work embraced by the contract and subject to prevailing hours and wages under Section 103.50, Stats. If necessary to employ laborers, workers, mechanics or truck drivers whose classification is not listed on the schedule, they shall be paid at rates conformable to those listed for similar classifications. Apprentices shall be paid at rates not less than those prescribed in their state indenture contracts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, 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 shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

Pursuant to Section 103.50 of the Wisconsin Statutes, the prevailing hours of labor have been determined to be up to 10 hours per day and 40 hours per calendar week Monday through Friday. If any laborer, worker, mechanic or truck driver is permitted or required to work more than the prevailing number of hours per day or per calendar week on this contract, they shall be paid for all hours in excess of the prevailing hours at a rate of at least one and one-half (1 1/2) times their hourly rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half: (1) January 1, (2) the last Monday in May, (3) July 4, (4) the first Monday in September, (5) the fourth Thursday in November, (6) December 25, (7) the day before if January 1, July 4 or December 25 falls on a Saturday and (8) the day following if January 1, July 4 or December 25 falls on a Sunday.

All laborers, workers, mechanics and truck drivers shall be paid unconditionally not less often than once a week. Persons who own and operate their own trucks must receive the prevailing truck driver rate for the applicable type of truck (i.e. 2 axle, 3 or more axle, articulated, eculid or dumptor) he or she operates, plus an agreed upon amount for the use of his or her truck. Every owner-operator MUST be paid separately for their driving and for the use of their truck.

For those projects subject to the requirements of the Davis-Bacon Act, the Secretary of Labor will also have determined "Minimum Wage Rates" for work to be performed under the contract. These rates are, for all or most of the labor, worker, mechanic or truck driver classifications, identical to those established under Section 103.50 of the Wisconsin Statutes. In the event the rates are not identical, the higher of the two rates will govern.

II. PAYROLL REQUIREMENTS

All contractors and subcontractors must submit weekly Certified Payrolls and Compliance Statement verifying that all laborers, workers, mechanics and truck drivers working on the project have been paid the prevailing wage rates for all work performed under the contract required by Section 103.50 of the Wisconsin Statutes.

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 place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 103.50 of the Wisconsin Statutes.
- b. A copy of the State of Wisconsin Minimum Wages Rates. (Four pages.)
- c. A copy of the contractor's Equal Employment Opportunity Policy.
- d. On any project involving federal aid, in addition to the furnished postings, the contractor shall post a copy of the "Davis-Bacon Act, Minimum Wage Rates". (Three pages.)

IV. WAGE RATE REDISTRIBUTION

The amount specified as the hourly basic rate of pay and the amount(s) specified as the fringe benefit contribution(s), for all classes of laborers, workers, mechanics or truck drivers may be redistributed, when necessary, to conform to those specified in any applicable collective bargaining agreement, provided that both parties to such agreement

request and receive the approval for any such redistribution from both the Department of Transportation and the Department of Workforce Development prior to the implementation of such redistribution.

V. ADDITIONAL CLASSIFICATIONS

Any unlisted laborer or mechanic classification that is needed to perform work on this project, and is not included within the scope of any of the classifications listed in the application prevailing wage rate determination, may be added after award only if all of the following criteria have been met:

1. The affected employer(s) must make a written request to WisDOT Central Office to utilize the unlisted classification on this project.
2. The request must indicate the scope of the work to be performed by the unlisted classification and must indicate the proposed wage/fringe benefit package that the unlisted classification is to receive.
3. The work to be performed by the unlisted classification must not be performed by a classification that is included in the applicable prevailing wage rate determination.
4. The unlisted classification must be commonly employed in the area where the project is located.
5. The proposed wage/fringe benefit package must bear a reasonable relationship to those set forth in the applicable prevailing wage rate determination.
6. The request should be made prior to the actual performance of the work by the unlisted classification.
7. DWD must approve the use of the unlisted classification and the proposed wage/fringe benefit package. USDOL also must approve the use of the unlisted classification and the proposed wage/fringe benefit package on federal aid projects.
8. WisDOT and DWD may amend the proposed wage/fringe benefit package, as deemed necessary, and may set forth specific employment ratios and scope of work requirements in the approval document.

The approved wage/fringe benefit package shall be paid to all laborers, workers, mechanics or truck drivers performing work within the scope of that performed by the unlisted classification, from the first day on which such work is performed. In the event that work is performed by the unlisted classification prior to approval, the wage/fringe benefit package to be paid for such work must be in conformance with the wage/fringe

benefit package approved for such work. Under this arrangement a retroactive adjustment in wages and/or fringe benefits may be required to be made to the affected laborers, workers, mechanics or truck drivers by the affected employer(s).

**ANNUAL PREVAILING WAGE RATE DETERMINATION
FOR ALL STATE HIGHWAY PROJECTS
DODGE COUNTY**

Compiled by the State of Wisconsin - Department of Workforce Development
for the Department of Transportation
Pursuant to s. 103.50, Stats.
Issued on May 1, 2014

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions regarding the proper trade or classification to be used for any worker on a public works project.

OVERTIME: Time and one-half must be paid for all hours worked over 10 hours per day and 40 hours per calendar week and for all hours worked on Saturday, Sunday and the following six (6) holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; the day before if January 1, July 4 or December 25 falls on a Saturday; the day following if January 1, July 4 or December 25 falls on a Sunday.

FUTURE INCREASE: If indicated for a specific trade or occupation, the full amount of such increase MUST be added to the "TOTAL" indicated for such trade or occupation on the date(s) such increase(s) becomes effective.

PREMIUM PAY: If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.

SUBJOURNEY: Wage rates may be available for some of the classifications indicated below. Any employer that desires to use any subjourney classification on a project MUST request the applicable wage rate from the Department of Workforce Development PRIOR to the date such classification is used on such project. Form ERD-10880 is available for this purpose and can be obtained by writing to the Department of Workforce Development, Equal Rights Division, P.O. Box 8928, Madison, WI 53708.

| <u>TRADE OR OCCUPATION</u> | <u>HOURLY BASIC RATE OF PAY</u> | <u>HOURLY FRINGE BENEFITS</u> | <u>TOTAL</u> |
|---|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| Bricklayer, Blocklayer or Stonemason | 32.56 | 16.99 | 49.55 |
| Carpenter | 30.48 | 15.90 | 46.38 |
| Cement Finisher | 32.65 | 17.32 | 49.97 |
| Future Increase(s): Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. | | | |
| Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise. | | | |
| Electrician | 32.20 | 21.50 | 53.70 |
| Fence Erector | 22.15 | 1.73 | 23.88 |
| Ironworker | 31.25 | 19.46 | 50.71 |
| Line Constructor (Electrical) | 38.25 | 16.28 | 54.53 |
| Painter | 21.87 | 11.37 | 33.24 |
| Pavement Marking Operator | 30.00 | 0.00 | 30.00 |
| Piledriver | 30.98 | 15.90 | 46.88 |
| Roofer or Waterproofer | 29.40 | 2.49 | 31.89 |
| Teledata Technician or Installer | 21.89 | 15.00 | 36.89 |
| Tuckpointer, Caulker or Cleaner | 35.25 | 13.74 | 48.99 |
| Underwater Diver (Except on Great Lakes) | 34.48 | 15.90 | 50.38 |
| Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 34.43 | 15.24 | 49.67 |
| Light Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 30.60 | 14.86 | 45.46 |
| Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 26.78 | 13.63 | 40.41 |
| Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 24.86 | 12.97 | 37.83 |
| Groundman - ELECTRICAL LINE CONSTRUCTION ONLY | 21.75 | 12.70 | 34.45 |

| <u>TRADE OR OCCUPATION</u> | <u>HOURLY BASIC RATE OF PAY</u> | <u>HOURLY FRINGE BENEFITS</u> | <u>TOTAL</u> |
|---|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| TRUCK DRIVERS | | | |
| Single Axle or Two Axle | 34.22 | 19.90 | 54.12 |
| Three or More Axle | 26.87 | 15.10 | 41.97 |
| Articulated, Euclid, Dumptor, Off Road Material Hauler | 29.27 | 20.40 | 49.67 |
| Future Increase(s): Add \$1.75/hr on 6/1/14); Add \$1.25/hr on 6/1/15); Add \$1.30/hr on 6/1/16); Add \$1.25/hr on 6/ 1/ 17. | | | |
| Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/ business/ civilrights/ laborwages/ pwc. htm . | | | |
| Pavement Marking Vehicle | 26.87 | 15.10 | 41.97 |
| Shadow or Pilot Vehicle | 34.22 | 19.90 | 54.12 |
| Truck Mechanic | 26.87 | 15.10 | 41.97 |

LABORERS

| | | | |
|--|-------|-------|-------|
| General Laborer | 29.04 | 14.63 | 43.67 |
| Future Increase(s): Add \$1.60/hr on 6/1/2014. | | | |
| Premium Pay: Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period). | | | |
| Asbestos Abatement Worker | 19.00 | 0.00 | 19.00 |
| Landscaper | 29.04 | 14.63 | 43.67 |
| Future Increase(s): Add \$1.60/hr on 6/1/14. | | | |
| Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period). | | | |
| Flagperson or Traffic Control Person | 21.88 | 20.12 | 42.00 |
| Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 18.31 | 12.67 | 30.98 |
| Railroad Track Laborer | 23.46 | 6.85 | 30.31 |

HEAVY EQUIPMENT OPERATORS

| | | | |
|--|-------|-------|-------|
| Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). | 36.72 | 20.40 | 57.12 |
| Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add | | | |

| TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
|--|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| <p>\$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.</p> | | | |
| Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. | 36.22 | 20.40 | 56.62 |
| <p>Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.</p> | | | |
| Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A- Frames. | 35.72 | 20.40 | 56.12 |
| <p>Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.</p> | | | |
| Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial | 35.46 | 20.40 | 55.86 |

| <u>TRADE OR OCCUPATION</u> | <u>HOURLY BASIC RATE OF PAY</u> | <u>HOURLY FRINGE BENEFITS</u> | <u>TOTAL</u> |
|---|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | | | |
| Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | 35.17 | 20.40 | 55.57 |
| Fiber Optic Cable Equipment. | 26.69 | 16.65 | 43.34 |

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: November 28, 2014

| LABORERS CLASSIFICATION: | Basic Hourly Rates | Fringe Benefits | | Basic Hourly Rates | Fringe Benefits |
|--|-----------------------|--------------------|--|-----------------------|--------------------|
| 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, Utility Man); Batch Truck Dumper; or Cement Handler; Bituminous Worker; (Dumper, Ironer, Smoother, Tamper); Concrete Handler | \$29.04 | 14.53 | | | |
| Group 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); | 29.14 | 14.53 | | | |
| Group 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off man | 29.19 | 14.53 | | | |
| Group 4: Line and Grade Specialist | 29.39 | 14.53 | | | |
| Group 5: Blaster and Powderman | 29.24 | 14.53 | | | |
| Group 6: Flagperson; Traffic Control | 25.67 | 14.53 | | | |

Truck Drivers:

| | | |
|---|-------------|-------|
| 1 & 2 Axles | 25.18 | 18.31 |
| Three or More Axles; Euclids, Dumptr & Articulated, Truck Mechanic | 25.38 | 18.31 |

CLASSES OF LABORER AND MECHANICS

| | | |
|---|-------------|------------|
| Bricklayer | 28.67 | 12.55 |
| Carpenter | 30.48 | 15.80 |
| Millwright | 32.11 | 15.80 |
| Piledriverman | 30.98 | 15.80 |
| Ironworker | 31.50 | 20.03 |
| Cement Mason/Concrete Finisher | 31.52 | 16.30 |
| Electrician | See Page 3 | |
| Line Construction | | |
| Lineman | 40.81 | 32% + 5.00 |
| Heavy Equipment Operator | 38.77 | 32% + 5.00 |
| Equipment Operator | 32.65 | 32% + 5.00 |
| Heavy Groundman Driver | 26.78 | 14.11 |
| Light Groundman Driver | 24.86 | 13.45 |
| Groundsman | 22.45 | 32% + 5.00 |
| Millwrights (N. of I-94) | 25.37 | 13.53 |
| Painter, Brush | 24.50 | 16.27 |
| Painter, Spray, Structural Steel, Bridges | 25.50 | 16.27 |
| Well Drilling: | | |
| Well Driller | 16.52 | 3.70 |

Notes: Welders receive rate prescribed for craft performing operation to which welding is incidental. 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 (29 CFR, 5.5(a)(1)(ii)). Includes Modification #0, dated January 3, 2014; Modification #1, dated February 7, 2014; Modification #2, dated March 14, 2014; Modification #3, dated May 2, 2014; Modification #4, dated June 27, 2014; Modification #5, dated July 4, 2014; Modification #6, dated July 25, 2014; Modification #7, dated August 1, 2014; Modification #8, dated November 28, 2014.

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: November 28, 2014

| <u>POWER EQUIPMENT OPERATORS CLASSIFICATION:</u> | <u>Basic Hourly Rates</u> | <u>Fringe Benefits</u> | <u>POWER EQUIPMENT OPERATORS CLASSIFICATION: (Continued)</u> | <u>Basic Hourly Rates</u> | <u>Fringe Benefits</u> |
|---|---------------------------|------------------------|--|---------------------------|------------------------|
| 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 | \$37.72 | \$20.93 | (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 and A-frames; post driver; material hoist operator. | \$36.72 | \$20.93 |
| 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 jib lengths measuring 175 feet or less, and backhoes (excavators) having a manufacturer's rated capacity of 3 cu. yds. and over, caisson rigs, pile driver, dredge operator, dredge engineer. | \$37.22 | \$20.93 | Group 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self-propelled; tractor (mounted or towed compactors and light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint saw (multiple blade) belting machine; burlap machine; texturing machine; tractor, endloader (rubber tired) - light; jeep digger; fork lift; mulcher; launch operator; fireman; environmental burner. | \$36.46 | \$20.93 |
| Group 3: Mechanic or welder - heavy duty equipment, cranes with a lifting capacity of 25 tons or less, concrete breaker (manual or remote); vibrator/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pavement spreader - heavy duty (rubber tired); concrete spreader and distributor, automatic subgrader (concrete); concrete grinder and planing machine; concrete slipform curb and gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi and over); bridge paver; concrete conveyor system; concrete pump; stabilizing mixer (self propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter and grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer and scarifier; backhoes (excavators) having a manufacturers rated capacity of under 3 cu. yds.; grader or motor patrol; tractor | | | Group 5: Air compressor; power pack; vibratory 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 helper. | \$36.17 | \$20.93 |
| | | | Group 6: Off - road material hauler with or without ejector..... | \$30.27 | \$20.93 |
| | | | Premium Pay: EPA Level "A" protection - \$3.00 per hour EPA Level "B" protection - \$2.00 per hour EPA Level "C" protection - \$1.00 per hours | | |

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: November 28, 2014

LABORERS CLASSIFICATION:

Rates

Benefits

| | | | | |
|--|--|----------------|-----------|--|
| | | | Area 4 - | BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausauke 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. |
| Electricians | | | | |
| Area 1 | \$29.00 | 26.5%+ 9.15 | | |
| Area 2: | | | | |
| Electricians..... | 30.59 | 18.43 | Area 5 - | ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Area North of the town of Wausauke), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Area North of the townships of Aniwa and Hutchins), VILAS AND WOOD COUNTIES |
| Area 3: | | | | |
| Electrical contracts under \$130,000 | 26.24 | 16.85 | | |
| Electrical contracts over \$130,000 | 29.41 | 16.97 | | |
| Area 4: | 28.50 | 28.75% + 9.27 | | |
| Area 5 | 28.96 | 24.85% + 9.70 | | |
| Area 6 | 35.25 | 19.30 | Area 6 - | KENOSHA COUNTY |
| Area 8 | | | | |
| Electricians..... | 31.10 | 24.95% + 10.41 | Area 8 - | DODGE, (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington township), ROCK and WALWORTH COUNTIES |
| Area 9: | | | | |
| Electricians..... | 34.82 | 19.575 | | |
| Area 10 | 29.64 | 20.54 | Area 9 - | COLUMBIA, DANE, DODGE, (area west of Hwy. 26, except Chester & 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 |
| Area 11 | 32.54 | 24.07 | | |
| Area 12 | 32.87 | 19.23 | Area 10 - | CALUMET (Township of New Holstein), DODGE (East of Hwy. 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES |
| Area 13 | 33.93 | 22.67 | | |
| Teledata System Installer | | | | |
| Area 14 | | | Area 11 - | DOUGLAS COUNTY |
| Installer/Technician | 22.50 | 12.72 | | |
| Sound & Communications | | | Area 12 - | RACINE (except Burlington township) COUNTY |
| Area 15 | | | | |
| Installer | 16.47 | 14.84 | Area 13 - | MILWAUKEE, OZAUKEE, WASHINGTON and WAUKESHA COUNTIES |
| Technician | 25.63 | 17.21 | Area 14 - | Statewide. |
| Area 1 - | 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 & Springfield), OUTAGAMIE, WAUPACA, WAUSHARA and WINNEBAGO COUNTIES. | | Area 15 - | DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES. |
| Area 2 - | ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Mayville, Colby, Unity, Sherman, Fremont, Lynn and 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 | | | |
| Area 3 - | FLORENCE (townships of Aurora, Commonwealth, Fern, Florence and Homestead), MARINETTE (Niagara township) | | | |

FEBRUARY 1999

**NOTICE TO BIDDERS
WAGE RATE DECISION**

The wage rate decision of the Secretary of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Secretary 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. The higher of state or federal rate will apply.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20150210012PROJECT(S):
6083-00-73
6083-00-78FEDERAL ID(S):
WISC 2015090
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS CTS | BID AMOUNT DOLLARS CTS |
|------------|---------------------|----------------------------------|-----------------------------|-----------------------------|
|------------|---------------------|----------------------------------|-----------------------------|-----------------------------|

SECTION 0001 Contract Items

| | | | | |
|------|--|-----------|------|---|
| 0010 | 201.0120 Clearing | 37.000 | | |
| | ID | | . | . |
| 0020 | 201.0220 Grubbing | 37.000 | | |
| | ID | | . | . |
| 0030 | 203.0200 Removing Old Structure (station) 01. 9+50 LT & RT | LUMP | LUMP | . |
| 0040 | 204.0100 Removing Pavement | 8,920.000 | | |
| | SY | | . | . |
| 0050 | 204.0150 Removing Curb & Gutter | 60.000 | | |
| | LF | | . | . |
| 0060 | 204.0155 Removing Concrete Sidewalk | 2,851.000 | | |
| | SY | | . | . |
| 0070 | 204.0195 Removing Concrete Bases | 27.000 | | |
| | EACH | | . | . |
| 0080 | 204.0210 Removing Manholes | 10.000 | | |
| | EACH | | . | . |
| 0090 | 204.0220 Removing Inlets | 18.000 | | |
| | EACH | | . | . |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0100 | 204.0245 Removing Storm Sewer (size) 02. 12-Inch | 661.000 LF | . | | . | |
| 0110 | 204.0245 Removing Storm Sewer (size) 03. 15-Inch | 299.000 LF | . | | . | |
| 0120 | 204.0245 Removing Storm Sewer (size) 04. 18-Inch | 138.000 LF | . | | . | |
| 0130 | 204.0245 Removing Storm Sewer (size) 05. 24-Inch | 445.000 LF | . | | . | |
| 0140 | 204.0245 Removing Storm Sewer (size) 06. 30-Inch | 66.000 LF | . | | . | |
| 0150 | 204.0245 Removing Storm Sewer (size) 07. 36-Inch | 56.000 LF | . | | . | |
| 0160 | 204.0280 Sealing Pipes | 3.000 EACH | . | | . | |
| 0170 | 204.9105.S Removing (Item Description) 01. Traffic Signal Equipment/ Maple Ave. & Center St. | LUMP | LUMP | | . | |
| 0180 | 204.9105.S Removing (Item Description) 02. Traffic Signal Equipment/ Front St. & Center St. | LUMP | LUMP | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0190 | 204.9105.S Removing (Item Description) 03. Traffic Signal Equipment/ Front St. & Spring St. | LUMP | LUMP | | | . |
| 0200 | 205.0100 Excavation Common | 7,827.000 CY | . | | . | |
| 0210 | 205.0200 Excavation Rock | 54.000 CY | . | | . | |
| 0220 | 205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil | 50.000 TON | . | | . | |
| 0230 | 206.1000 Excavation for Structures Bridges (structure) 01. B-14-0102 | LUMP | LUMP | | | . |
| 0240 | 210.0100 Backfill Structure | 210.000 CY | . | | . | |
| 0250 | 213.0100 Finishing Roadway (project) 01. 6083-00-73 | 1.000 EACH | . | | . | |
| 0260 | 305.0110 Base Aggregate Dense 3/4-Inch | 917.000 TON | . | | . | |
| 0270 | 305.0120 Base Aggregate Dense 1 1/4-Inch | 3,430.000 TON | . | | . | |
| 0280 | 312.0110 Select Crushed Material | 5,635.000 TON | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0290 | 405.0100 Coloring Concrete Red | 243.000 CY | . | | . | |
| 0300 | 415.0080 Concrete Pavement 8-Inch | 7,983.000 SY | . | | . | |
| 0310 | 415.0210 Concrete Pavement Gaps | 1.000 EACH | . | | . | |
| 0320 | 416.0160 Concrete Driveway 6-Inch | 62.000 SY | . | | . | |
| 0330 | 416.0610 Drilled Tie Bars | 31.000 EACH | . | | . | |
| 0340 | 416.0620 Drilled Dowel Bars | 214.000 EACH | . | | . | |
| 0350 | 455.0605 Tack Coat | 4.000 GAL | . | | . | |
| 0360 | 465.0105 Asphaltic Surface | 28.000 TON | . | | . | |
| 0370 | 502.0100 Concrete Masonry Bridges | 28.000 CY | . | | . | |
| 0380 | 505.0605 Bar Steel Reinforcement HS Coated Bridges | 1,700.000 LB | . | | . | |
| 0390 | 516.0500 Rubberized Membrane Waterproofing | 4.000 SY | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0400 | 520.8000 Concrete Collars for Pipe | 6.000 EACH | . | | . | |
| 0410 | 601.0409 Concrete Curb & Gutter 30-Inch Type A | 3,026.000 LF | . | | . | |
| 0420 | 601.0411 Concrete Curb & Gutter 30-Inch Type D | 60.000 LF | . | | . | |
| 0430 | 602.0410 Concrete Sidewalk 5-Inch | 25,323.000 SF | . | | . | |
| 0440 | 602.0415 Concrete Sidewalk 6-Inch | 700.000 SF | . | | . | |
| 0450 | 602.0505 Curb Ramp Detectable Warning Field Yellow | 232.000 SF | . | | . | |
| 0460 | 606.0100 Riprap Light | 22.000 CY | . | | . | |
| 0470 | 608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch | 458.000 LF | . | | . | |
| 0480 | 608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch | 317.000 LF | . | | . | |
| 0490 | 608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch | 174.000 LF | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0500 | 608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch | 129.000 LF | . | | . | |
| 0510 | 608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch | 471.000 LF | . | | . | |
| 0520 | 608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch | 140.000 LF | . | | . | |
| 0530 | 608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch | 40.000 LF | . | | . | |
| 0540 | 608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch | 53.000 LF | . | | . | |
| 0550 | 610.0138 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class He-III 38x60-Inch | 68.000 LF | . | | . | |
| 0560 | 611.0530 Manhole Covers Type J | 11.000 EACH | . | | . | |
| 0570 | 611.0624 Inlet Covers Type H | 5.000 EACH | . | | . | |
| 0580 | 611.0639 Inlet Covers Type H-S | 28.000 EACH | . | | . | |
| 0590 | 611.1004 Catch Basins 4-FT Diameter | 7.000 EACH | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0600 | 611.1005 Catch Basins 5-FT Diameter | 1.000 EACH | . | | . | |
| 0610 | 611.1230 Catch Basins 2x3-FT | 22.000 EACH | . | | . | |
| 0620 | 611.2004 Manholes 4-FT Diameter | 4.000 EACH | . | | . | |
| 0630 | 611.2005 Manholes 5-Ft Diameter | 5.000 EACH | . | | . | |
| 0640 | 611.2006 Manholes 6-FT Diameter | 1.000 EACH | . | | . | |
| 0650 | 611.2008 Manholes 8-FT Diameter | 3.000 EACH | . | | . | |
| 0660 | 612.0106 Pipe Underdrain 6-Inch | 2,632.000 LF | . | | . | |
| 0670 | 612.0406 Pipe Underdrain Wrapped 6-Inch | 90.000 LF | . | | . | |
| 0680 | 618.0100 Maintenance And Repair Of Haul Roads (Project) 01. 6083-00-73 | 1.000 EACH | . | | . | |
| 0690 | 619.1000 Mobilization | 1.000 EACH | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0700 | 620.0300 Concrete Median Sloped Nose | 160.000 SF | . | | . | |
| 0710 | 624.0100 Water | 110.000 MGAL | . | | . | |
| 0720 | 625.0100 Topsoil | 796.000 SY | . | | . | |
| 0730 | 628.1504 Silt Fence | 140.000 LF | . | | . | |
| 0740 | 628.1520 Silt Fence Maintenance | 140.000 LF | . | | . | |
| 0750 | 628.1905 Mobilizations Erosion Control | 2.000 EACH | . | | . | |
| 0760 | 628.1910 Mobilizations Emergency Erosion Control | 2.000 EACH | . | | . | |
| 0770 | 628.7015 Inlet Protection Type C | 56.000 EACH | . | | . | |
| 0780 | 629.0210 Fertilizer Type B | 0.500 CWT | . | | . | |
| 0790 | 631.0300 Sod Water | 226.000 MGAL | . | | . | |
| 0800 | 631.1000 Sod Lawn | 707.000 SY | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0810 | 634.0814 Posts Tubular Steel 2x2-Inch X 14-FT | 8.000 EACH | . | | . | |
| 0820 | 637.2210 Signs Type II Reflective H | 239.000 SF | . | | . | |
| 0830 | 637.2215 Signs Type II Reflective H Folding | 75.000 SF | . | | . | |
| 0840 | 637.2230 Signs Type II Reflective F | 33.000 SF | . | | . | |
| 0850 | 638.2602 Removing Signs Type II | 64.000 EACH | . | | . | |
| 0860 | 638.3000 Removing Small Sign Supports | 18.000 EACH | . | | . | |
| 0870 | 642.5201 Field Office Type C | 1.000 EACH | . | | . | |
| 0880 | 643.0100 Traffic Control (Project) 01. 6083-00-73 | 1.000 EACH | . | | . | |
| 0890 | 643.0300 Traffic Control Drums | 3,510.000 DAY | . | | . | |
| 0900 | 643.0410 Traffic Control Barricades Type II | 1,896.000 DAY | . | | . | |
| 0910 | 643.0420 Traffic Control Barricades Type III | 4,455.000 DAY | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0920 | 643.0705 Traffic Control Warning Lights Type A | 11,766.000 DAY | . | | . | |
| 0930 | 643.0900 Traffic Control Signs | 6,114.000 DAY | . | | . | |
| 0940 | 643.0920 Traffic Control Covering Signs Type II | 16.000 EACH | . | | . | |
| 0950 | 643.1000 Traffic Control Signs Fixed Message | 64.000 SF | . | | . | |
| 0960 | 643.2000 Traffic Control Detour (Project) 01. 6083-00-73 | 1.000 EACH | . | | . | |
| 0970 | 643.3000 Traffic Control Detour Signs | 11,115.000 DAY | . | | . | |
| 0980 | 645.0112 Geotextile Fabric Type DF Schedule B | 1,463.000 SY | . | | . | |
| 0990 | 645.0120 Geotextile Fabric Type HR | 70.000 SY | . | | . | |
| 1000 | 646.0106 Pavement Marking Epoxy 4-Inch | 6,420.000 LF | . | | . | |
| 1010 | 646.0126 Pavement Marking Epoxy 8-Inch | 1,420.000 LF | . | | . | |
| 1020 | 646.0600 Removing Pavement Markings | 3,074.000 LF | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1030 | 647.0166 Pavement Marking Arrows Epoxy Type 2 | 23.000 EACH | . | | . | |
| 1040 | 647.0256 Pavement Marking Symbols Epoxy | 2.000 EACH | . | | . | |
| 1050 | 647.0356 Pavement Marking Words Epoxy | 14.000 EACH | . | | . | |
| 1060 | 647.0456 Pavement Marking Curb Epoxy | 697.000 LF | . | | . | |
| 1070 | 647.0566 Pavement Marking Stop Line Epoxy 18-Inch | 303.000 LF | . | | . | |
| 1080 | 647.0606 Pavement Marking Island Nose Epoxy | 2.000 EACH | . | | . | |
| 1090 | 647.0656 Pavement Marking Parking Stall Epoxy | 516.000 LF | . | | . | |
| 1100 | 647.0726 Pavement Marking Diagonal Epoxy 12-Inch | 277.000 LF | . | | . | |
| 1110 | 647.0766 Pavement Marking Crosswalk Epoxy 6-Inch | 1,219.000 LF | . | | . | |
| 1120 | 650.4000 Construction Staking Storm Sewer | 45.000 EACH | . | | . | |
| 1130 | 650.4500 Construction Staking Subgrade | 1,637.000 LF | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1140 | 650.5000 Construction Staking Base | 30.000 LF | . | | . | |
| 1150 | 650.5500 Construction Staking Curb Gutter And Curb & Gutter | 60.000 LF | . | | . | |
| 1160 | 650.6500 Construction Staking Structure Layout (Structure) 01. B-14-0102 | LUMP | LUMP | | . | |
| 1170 | 650.7000 Construction Staking Concrete Pavement | 1,607.000 LF | . | | . | |
| 1180 | 650.8500 Construction Staking Electrical Installations (Project) 01. 6083-00-73 | LUMP | LUMP | | . | |
| 1190 | 650.9910 Construction Staking Supplemental Control (Project) 01. 6083-00-73 | LUMP | LUMP | | . | |
| 1200 | 650.9920 Construction Staking Slope Stakes | 1,637.000 LF | . | | . | |
| 1210 | 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch | 2,961.000 LF | . | | . | |
| 1220 | 652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch | 891.000 LF | . | | . | |
| 1230 | 652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch | 1,830.000 LF | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1240 | 652.0340 Conduit Rigid Nonmetallic Schedule 80 4-Inch | 178.000 LF | . | | . | |
| 1250 | 652.0700.S Install Conduit Into Existing Item | 5.000 EACH | . | | . | |
| 1260 | 652.0800 Conduit Loop Detector | 3,716.000 LF | . | | . | |
| 1270 | 653.0135 Pull Boxes Steel 24x36-Inch | 7.000 EACH | . | | . | |
| 1280 | 653.0140 Pull Boxes Steel 24x42-Inch | 28.000 EACH | . | | . | |
| 1290 | 653.0220 Junction Boxes 18x6x6-Inch | 1.000 EACH | . | | . | |
| 1300 | 653.0905 Removing Pull Boxes | 36.000 EACH | . | | . | |
| 1310 | 654.0101 Concrete Bases Type 1 | 17.000 EACH | . | | . | |
| 1320 | 654.0102 Concrete Bases Type 2 | 9.000 EACH | . | | . | |
| 1330 | 654.0217 Concrete Control Cabinet Bases Type 9 Special | 3.000 EACH | . | | . | |
| 1340 | 655.0210 Cable Traffic Signal 3-14 AWG | 576.000 LF | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1350 | 655.0230 Cable Traffic Signal 5-14 AWG | 525.000 LF | . | | . | |
| 1360 | 655.0240 Cable Traffic Signal 7-14 AWG | 207.000 LF | . | | . | |
| 1370 | 655.0270 Cable Traffic Signal 15-14 AWG | 2,914.000 LF | . | | . | |
| 1380 | 655.0310 Cable Type UF 2-12 AWG | 701.000 LF | . | | . | |
| 1390 | 655.0515 Electrical Wire Traffic Signals 10 AWG | 4,894.000 LF | . | | . | |
| 1400 | 655.0525 Electrical Wire Traffic Signals 6 AWG | 198.000 LF | . | | . | |
| 1410 | 655.0610 Electrical Wire Lighting 12 AWG | 2,711.000 LF | . | | . | |
| 1420 | 655.0625 Electrical Wire Lighting 6 AWG | 9,268.000 LF | . | | . | |
| 1430 | 655.0700 Loop Detector Lead In Cable | 4,776.000 LF | . | | . | |
| 1440 | 655.0800 Loop Detector Wire | 9,852.000 LF | . | | . | |

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|------------|--|----------------------------------|-----------------------------|-----------------------------|
| 1450 | 656.0300 Electrical Service Unmetered (Location) 01. Front Street & Spring Street | LUMP | LUMP | . |
| 1460 | 656.0300 Electrical Service Unmetered (Location) 02. Front Street & Center Street | LUMP | LUMP | . |
| 1470 | 656.0300 Electrical Service Unmetered (Location) 03. Maple Avenue & Center Street | LUMP | LUMP | . |
| 1480 | 657.0100 Pedestal Bases | 18.000 EACH | . | . |
| 1490 | 657.0310 Poles Type 3 | 10.000 EACH | . | . |
| 1500 | 657.0420 Traffic Signal Standards Aluminum 13-FT | 13.000 EACH | . | . |
| 1510 | 657.0425 Traffic Signal Standards Aluminum 15-FT | 6.000 EACH | . | . |
| 1520 | 657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT | 10.000 EACH | . | . |
| 1530 | 658.0110 Traffic Signal Face 3-12 Inch Vertical | 28.000 EACH | . | . |
| 1540 | 658.0120 Traffic Signal Face 5-12 Inch Vertical | 8.000 EACH | . | . |

SCHEDULE OF ITEMS

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6083-00-73
6083-00-78FEDERAL ID(S):
WISC 2015090
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CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1550 | 658.0215 Backplates Signal Face 3 Section 12-Inch | 28.000 EACH | . | | . | |
| 1560 | 658.0225 Backplates Signal Face 5 Section 12-Inch | 8.000 EACH | . | | . | |
| 1570 | 658.0416 Pedestrian Signal Face 16-Inch | 24.000 EACH | . | | . | |
| 1580 | 658.0500 Pedestrian Push Buttons | 24.000 EACH | . | | . | |
| 1590 | 658.0600 Led Modules 12-Inch Red Ball | 36.000 EACH | . | | . | |
| 1600 | 658.0605 Led Modules 12-Inch Yellow Ball | 36.000 EACH | . | | . | |
| 1610 | 658.0610 Led Modules 12-Inch Green Ball | 36.000 EACH | . | | . | |
| 1620 | 658.0620 Led Modules 12-Inch Yellow Arrow | 8.000 EACH | . | | . | |
| 1630 | 658.0625 Led Modules 12-Inch Green Arrow | 8.000 EACH | . | | . | |
| 1640 | 658.0635 Led Modules Pedestrian Countdown Timer 16-Inch | 24.000 EACH | . | | . | |

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| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS CTS | BID AMOUNT DOLLARS CTS |
|------------|--|----------------------------------|-----------------------------|-----------------------------|
| 1650 | 658.5069 Signal Mounting Hardware (Location) 01. Front Street & Srping Street | LUMP | LUMP | . |
| 1660 | 658.5069 Signal Mounting Hardware (Location) 02. Front Street & Center Street | LUMP | LUMP | . |
| 1670 | 658.5069 Signal Mounting Hardware (Location) 03. Maple Avenue & Center Street | LUMP | LUMP | . |
| 1680 | 670.0100 Field System Integrator | LUMP | LUMP | . |
| 1690 | 678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT | 1,179.000 LF | . | . |
| 1700 | 678.0400 Fiber Optic Termination | 4.000 EACH | . | . |
| 1710 | 678.0500 Communication System Testing | LUMP | LUMP | . |
| 1720 | 690.0150 Sawing Asphalt | 88.000 LF | . | . |
| 1730 | 690.0250 Sawing Concrete | 1,889.000 LF | . | . |
| 1740 | 715.0415 Incentive Strength Concrete Pavement | 2,225.000 DOL | 1.00000 | 2225.00 |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1750 | 715.0502 Incentive Strength Concrete Structures | 500.000 DOL | 1.00000 | | 500.00 | |
| 1760 | 999.1500.S Crack And Damage Survey | LUMP | LUMP | | . | |
| 1770 | ASP.1T0A On-The-Job Training Apprentice At \$5.00/Hr | 500.000 HRS | 5.00000 | | 2500.00 | |
| 1780 | ASP.1T0G On-The-Job Training Graduate At \$5. 00/Hr | 425.000 HRS | 5.00000 | | 2125.00 | |
| 1790 | SPV.0035 Special 01. Backfill Dense Base | 16.000 CY | . | | . | |
| 1800 | SPV.0045 Special 01. Temporary Crosswalk | 411.000 DAY | . | | . | |
| 1810 | SPV.0045 Special 02. Seismograph Special | 10.000 DAY | . | | . | |
| 1820 | SPV.0060 Special 01. Decorative Luminarie | 10.000 EACH | . | | . | |
| 1830 | SPV.0060 Special 02. Traffic Signal Controller And Cabinet, Fully Actuated 8-Phase | 3.000 EACH | . | | . | |
| 1840 | SPV.0060 Special 04. Utility Line Opening | 4.000 EACH | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1850 | SPV.0060 Special 05. Connection To Existing Electrical Circuit | 4.000 EACH | . | | . | |
| 1860 | SPV.0060 Special 06. Concrete Bases Type 5, Modified | 14.000 EACH | . | | . | |
| 1870 | SPV.0060 Special 07. Lighting Assembly Roadway Decorative 126w-Led | 15.000 EACH | . | | . | |
| 1880 | SPV.0060 Special 09. Removing Base, Pole & Luminaire | 24.000 EACH | . | | . | |
| 1890 | SPV.0060 Special 10. Sanitary Manhole Covers Type J-Special | 6.000 EACH | . | | . | |
| 1900 | SPV.0060 Special 11. Standard Sanitary Pipe Connection | 7.000 EACH | . | | . | |
| 1910 | SPV.0060 Special 12. Sanitary Wye 8-Inch Main | 1.000 EACH | . | | . | |
| 1920 | SPV.0060 Special 13. Sanitary Wye 10-Inch Main | 1.000 EACH | . | | . | |
| 1930 | SPV.0060 Special 14. Sanitary Wye 15-Inch Main | 27.000 EACH | . | | . | |
| 1940 | SPV.0060 Special 15. Water Valve & Box 6-Inch | 6.000 EACH | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1950 | SPV.0060 Special 16. Water Valve & Box 8-Inch | 6.000 EACH | . | | . | |
| 1960 | SPV.0060 Special 17. Water Valve & Box 10-Inch | 4.000 EACH | . | | . | |
| 1970 | SPV.0060 Special 18. Water Valve & Box 12-Inch | 1.000 EACH | . | | . | |
| 1980 | SPV.0060 Special 19. Fire Hydrant | 4.000 EACH | . | | . | |
| 1990 | SPV.0060 Special 20. Tee 6"X6"X6" | 1.000 EACH | . | | . | |
| 2000 | SPV.0060 Special 21. Tee 8"X6"X8" | 1.000 EACH | . | | . | |
| 2010 | SPV.0060 Special 22. Tee 8"X8"X8" | 2.000 EACH | . | | . | |
| 2020 | SPV.0060 Special 23. Tee 10"X6"X10" | 3.000 EACH | . | | . | |
| 2030 | SPV.0060 Special 24. Tee 10"X8"X10" | 2.000 EACH | . | | . | |
| 2040 | SPV.0060 Special 25. Tee 12"X6"X12" | 1.000 EACH | . | | . | |
| 2050 | SPV.0060 Special 26. Tee 12"X8"X12" | 1.000 EACH | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 2060 | SPV.0060 Special 27. Tee 12"X10"X12" | 1.000 EACH | . | | . | |
| 2070 | SPV.0060 Special 28. Bend 45-Degree 8-Inch | 12.000 EACH | . | | . | |
| 2080 | SPV.0060 Special 29. Bend 45-Degree 10-Inch | 4.000 EACH | . | | . | |
| 2090 | SPV.0060 Special 30. Bend 45-Degree 12-Inch | 2.000 EACH | . | | . | |
| 2100 | SPV.0060 Special 31. Reducer 8"X6" | 3.000 EACH | . | | . | |
| 2110 | SPV.0060 Special 32. Reducer 12"X10" | 1.000 EACH | . | | . | |
| 2120 | SPV.0060 Special 33. Connect Water Main To Ex. Pipe | 10.000 EACH | . | | . | |
| 2130 | SPV.0060 Special 34. Copr., Curb Stop & Box | 33.000 EACH | . | | . | |
| 2140 | SPV.0060 Special 35. Traffic Control Signs Fixed Message City Provided | 5.000 EACH | . | | . | |
| 2150 | SPV.0060 Special 36. Remove Manhole Casting | 7.000 EACH | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 2160 | SPV.0060 Special 40. Black Sign Post And V-Loc Post Anchor Unit | 8.000 EACH | . | | . | |
| 2170 | SPV.0060 Special 70. Box Culvert Connection | 1.000 EACH | . | | . | |
| 2180 | SPV.0060 Special 72. Inlet Covers Type HD | 1.000 EACH | . | | . | |
| 2190 | SPV.0090 Special 01. Sanitary Sewer Pipe 8-Inch | 214.000 LF | . | | . | |
| 2200 | SPV.0090 Special 02. Sanitary Sewer Pipe 10-Inch | 416.000 LF | . | | . | |
| 2210 | SPV.0090 Special 03. Sanitary Sewer Pipe 12-Inch | 149.000 LF | . | | . | |
| 2220 | SPV.0090 Special 04. Sanitary Sewer Pipe 15-Inch | 662.000 LF | . | | . | |
| 2230 | SPV.0090 Special 05. Sanitary Sewer Pipe 16-Inch | 10.000 LF | . | | . | |
| 2240 | SPV.0090 Special 06. Sanitary Lateral 4 Or 6-Inch | 957.000 LF | . | | . | |
| 2250 | SPV.0090 Special 07. Water Main 6-Inch | 140.500 LF | . | | . | |
| 2260 | SPV.0090 Special 08. Water Main 8-Inch | 649.000 LF | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 2270 | SPV.0090 Special 09. Water Main 10-Inch | 717.000 LF | . | | . | |
| 2280 | SPV.0090 Special 10. Water Main 12-Inch | 133.000 LF | . | | . | |
| 2290 | SPV.0090 Special 11. Water Service 1-Inch | 1,062.000 LF | . | | . | |
| 2300 | SPV.0090 Special 12. Removing Coal Vault And Building Foundation Walls | 1,175.000 LF | . | | . | |
| 2310 | SPV.0090 Special 13. Temporary Pedestrian Barrier | 1,150.000 LF | . | | . | |
| 2320 | SPV.0090 Special 14. Sanitary Sewer Pipe 18-Inch | 45.000 LF | . | | . | |
| 2330 | SPV.0090 Special 72. Abandoning Storm Sewer (5x6-Foot Box) | 371.000 LF | . | | . | |
| 2340 | SPV.0105 Special 01. Solar Powered Rectangular Rapid Flashing Beacon (Rrfb) With Pedestrian A | LUMP | LUMP | | . | |
| 2350 | SPV.0105 Special 02. Removing Lighting Conduit & Wire | LUMP | LUMP | | . | |
| 2360 | SPV.0105 Special 03. Abandon/Remove Ex. Sanitary Pipe Or Structure | LUMP | LUMP | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 2370 | SPV.0105 Special 04. Abandon/Remove Ex. Water Pipe Or Structure | LUMP | LUMP | | | . |
| 2380 | SPV.0105 Special 05. Powder Coating Steel Traffic Signal Poles Type 3 | LUMP | LUMP | | | . |
| 2390 | SPV.0105 Special 06. Concrete Pavement Joint Layout | LUMP | LUMP | | | . |
| 2400 | SPV.0105 Special 07. Modified Bridge Approach | LUMP | LUMP | | | . |
| 2410 | SPV.0105 Special 20. Remove Planter | LUMP | LUMP | | | . |
| 2420 | SPV.0105 Special 21. Relocate Decorative Pillars And Fence | LUMP | LUMP | | | . |
| 2430 | SPV.0165 Special 01. Temporary Sidewalk | 375.000 SF | . | | | . |
| 2440 | SPV.0165 Special 02. Stamping Concrete Sidewalk 5-Inch | 6,999.000 SF | . | | | . |
| 2450 | SPV.0200 Special 01. Sanitary Manhole Type 1 | 51.090 VF | . | | | . |
| 2460 | SPV.0200 Special 02. Sanitary Manhole Type 3 | 13.280 VF | . | | | . |
| | SECTION 0001 TOTAL | | | | | . |
| | TOTAL BID | | | | | . |

PLEASE ATTACH SCHEDULE OF ITEMS HERE